

September 17, 2024

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Deferral Request Report Addendum Charlie Sweeney Fed TB

Incident Number nAPP2332849245

**Eddy County, New Mexico** 

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Deferral Request Report Addendum (DRRA)* to document excavation and soil sampling activities at the Charlie Sweeney Fed Tank Battery (TB; Site). The purpose of the Site assessment and soil sampling activities was to address impacts to soil following a release of produced water at the Site. Based on the excavation activities and analytical results from the soil sampling events, Matador is submitting this *DRRA*, describing remediation and confirmation sampling activities that have been completed and requesting deferral for Incident Number nAPP2332849245 until the pad is well is plugged and abandoned or the Site is reclaimed.

Ensolum submitted a *Closure Request Report* (CRR) on February 22, 2024, to the New Mexico Oil Conservation Division (NMOCD); however, the CRR was denied for the following reasons:

• Remediation closure denied. OCD will accept the background chloride limit of 1,328 mg/kg. Continue remediating the open excavation to these standards and submit updated remediation closure report to the OCD by 7/16/24.

Ensolum submitted a Deferral Request Report (DRR) to the NMOCD on July 16, 2024, that addressed concerns regarding excavation floor samples with chloride concentrations exceeding 1,328 milligrams per kilogram (mg/kg); however, the DRR was denied for the following reasons:

• Deferral denied. Matador still needs to collect sidewall samples from the excavations at FS03, FS04, FS06, FS07. Sidewall samples should be collected during every excavation to ensure the boundaries of the release are defined. Remediation on an active site can be deferred in areas immediately under or around production equipment such as production tanks, wellheads, and pipelines where remediation could cause a major facility deconstruction so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water. The area of requested deferral has not been horizontally delineated to the east or west of it. All requested samples may be tested for Chloride only. Resubmit deferral request to the OCD by 8/19/2024.

This *DRRA* addresses NMOCD's concerns regarding excavation floor samples with chloride concentrations exceeding 1,328 milligrams per kilogram (mg/kg) and addresses additional sidewall soil sampling in confirmation sample areas FS03, FS04, FS06, and FS07.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com



#### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in in Unit P, Section 31, Township 23 South, Range 28 East, in Eddy County, New Mexico (32.254637°, -104.119618°) and is associated with oil and gas exploration and production operations on private land.

On November 24, 2023, a seal on a saltwater disposal well (SWD) pump broke, resulting in the release of approximately 67 barrels (bbls) of produced water on pad. A vacuum truck was dispatched to the Site upon discovery of the release, and 35 bbls of produced water were recovered. Matador submitted a Release Notification Form C-141 (Form C-141) to the NMOCD on September 20, 2023. The release was assigned Incident Number nAPP2332849245. The Form C-141 for this incident can be referenced using the NMOCD Portal.

#### SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C 04037 POD 1, with a depth to water measurement of 60 feet below ground surface (bgs); the groundwater well is located approximately 0.54 miles northwest of the Site. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well log and record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 833 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is in a designated high potential karst zone. Potential Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

Benzene: 10 mg/kg

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

Total petroleum hydrocarbons (TPH): 100 mg/kg

Chloride: 600 mg/kg

NMOCD had approved a background chloride concentration limit of 1,328 mg/kg for excavation floor samples collected at the Site.

### SITE ASSESSMENT ACTIVITIES

On November 27, 2023, Site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Five preliminary assessment soil samples (SS01 through SS05) were collected at ground surface around the release extent to assess the lateral extent of the spill area. On December 6, 2023, two potholes (PH01 and PH02) were advanced via backhoe within the release extent to assess the vertical extent of soil. Potholes PH01 and PH02



were advanced to a depth of 2 feet bgs. On January 25, 2024, one additional pothole (PH03) was advanced via backhoe to a depth of 10 feet bgs, and on January 30, 2024, two boreholes (BH01 and BH02) were advanced via hand auger to depths of 9 feet and 6 feet bgs, respectively, within the release extent. The purpose of the vertical potholes and borings was to assess naturally occurring chloride concentrations in the vicinity of the release area. The preliminary assessment soil samples were field screened for TPH using a PetroFLAG® soil analyzer system and chloride using Mohr method titration. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was collected, and a photographic log is included in Appendix B.

All soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. In addition, soil samples from BH01, BH02, and PH03 were analyzed for sulfate concentration.

#### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary assessment soil samples (SS01 through SS05) indicated all COC concentrations were in compliance with the Site Closure Criteria at ground surface. Laboratory analytical results from potholes PH01 and PH02 indicated the presence of elevated chloride concentrations at the ground surface. Samples collected from 1 foot and 2 feet bgs in those locations did not contain elevated chloride.

Chloride concentrations detected in soil samples collected at depths of 3 feet bgs and greater from BH01, BH02, and PH03 exceeded the Site Closure Criteria. Laboratory analytical results for preliminary assessment soil samples are summarized in Table 1. Based on the vertical distribution of chloride concentrations observed, it was determined that additional delineation sampling to investigate naturally occurring chloride concentrations was warranted.

#### **BACKGROUND SOIL SAMPLING**

On January 31, 2024, Ensolum personnel returned to the Site to conduct additional soil sampling around the Site to assess for the presence or absence of naturally occurring chloride in undisturbed soil horizons. A total of six background samples (BG01 through BG06) were collected in areas that did not appear to be disturbed by oil and gas operations and at depths ranging from ground surface to 10 feet bgs (see Figure 3). The soil samples were handled and analyzed as previously described. Field screening results and lithologic observations were logged on lithologic soil sampling logs, which are included in Appendix C.

#### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated the presence of naturally occurring chloride concentrations in soil exceeding 600 parts per million (ppm) (also measured as mg/kg) in four out of the six undisturbed areas, with a maximum chloride concentration of 11,800 mg/kg detected at BG03. When detected, the elevated concentrations generally occurred between ground surface and approximately 3 feet bgs.

Sulfate concentrations in all samples were generally elevated. Concentrations ranged from 275 mg/kg in BG02 to 26,100 mg/kg in BG06.



Laboratory analytical results are summarized in Table 2 and the laboratory analytical reports and chainof-custody documentation are presented in Appendix D. Notifications of sampling events are presented in Appendix E.

#### REGIONAL AND SITE-SPECIFIC NATURALLY OCCURRING CHLORIDE

According to the Geologic Map of the Otis 7.5-minute Quadrangle (Pederson and Dehler, October 2004), the Site is within the following formations/alluvium:

**Prlu-Permian Rustler Formation, lower, undifferentiated (Ochoan)** – Described as irregular masses of gypsum, dolomite, and salt in large blocks scattered on surface and outcrops with chaotic bedding orientations. Unit may include blocks of strata from the underlying Salado Formation. Thickness unknown.

Qaes-alluvial and eolian deposits (Pleistocene (?) to Holocene) – Described as brown silty clay to silt to sand, well-sorted, subangular to subrounded, grains composed of 70 percent (%) quartz and 30% carbonate and chert. Weak soil development in upper 1.25 meters: upper 15 centimeters of soil is massive silty clay to clayey silt, brown, slightly plastic, bioturbated, effervesces strongly, local organic film with granular soil structure; gypsiferous and calcareous concretions decrease in abundance downward to 40 centimeters; and prismatic structure extends down to 1.25 meters. Unit locally weathers into badlands and exhibits piping. Common veneer on nearly all Quaternary deposits. Thickness ≤10 m.

Regionally, this area consists of gypsum and salt deposits at or near ground surface. Gypsum (hydrated calcium sulfate ( $CaSO_4$ - $2H_2O$ )) and salt (sodium chloride (NaCl) and others) are prone to dissolve with precipitation events and naturally settle through pore spaces into clay with the electron affinity or areas where the pore spaces do not allow for gravity movement. The variability of the salt throughout the area is correlated with the heterogeneity of the surface make-up, limiting correlation of salt by depth and/or specific lithology.

In addition to the regional geology, this area has been documented to have elevated chloride concentrations predating this release. Previous background sampling activities conducted by Souder, Miller & Associates (SMA) on behalf of Matador were completed at seven locations prior to the assembly of production equipment at Sites in the vicinity. These locations are located around the Loving/Malaga area and indicate chloride concentrations exceed 600 ppm. Two of the background sites tested, Warren #203H and B Banker #221H, are near the Site and identify chloride concentrations comparable to those found in the soil samples presented in this report. Appendix F includes the NMOCD-approved reports that document the elevated chloride concentrations common in the area.

Through the advancement of boreholes BH01 and BH02, potholes PH01 through PH03, and background borings BG01 through BG06, Ensolum observed surface and subsurface soil/rock consistent with the regional geology. Within the well pad itself, the lithology appears to consist of imported caliche at the ground surface to approximately 2.5 feet bgs (likely based on the natural topographic terrain prior to well pad construction) with a poorly graded silty sand, poorly graded sand, or gypsum present beneath the caliche. Inconsistency with lithology based on depth is consistent with the regional geology. Outside of the well pad, Ensolum observed gypsum at the ground surface in background samples BG01 and BG03 through BG06. Background sample BG02 consisted of a poorly graded silty sand from the ground surface and transitioned into gypsum at 3.5 feet bgs.

The presence of elevated sulfate in background samples BG01 through BG06, as well as boreholes BH01 and BH02 and pothole PH01, supports the presence of gypsum. At the concentrations observed,



it is likely that naturally occurring chloride is present at varying concentrations, including at concentrations greater than 600 ppm, as observed in laboratory analytical results.

When completing delineation activities related to the release, observations by Ensolum appeared to indicate the release was contained within the caliche pad. Beneath the constructed pad, the heterogeneous lithology similar to the lithology already documented in the region was observed. As such, Ensolum proposes a site-specific background concentration for chloride. Using background sample results, chloride concentrations ranged from non-detect to 11,800 mg/kg, with an average concentration detected of 1,251 mg/kg. For samples collected within the observed gypsum layer, the average concentration of chloride was 2,902 mg/kg. Ensolum proposed the use of this value as a site-specific remediation standard at approximately 1-foot to 3 feet bgs on Site.

#### **EXCAVATION SOIL SAMPLING ACTIVITIES**

Beginning on January 23, 2024, Ensolum personnel were onsite to oversee the excavation and removal of impacted soil at the Site. Excavation activities were performed using a hydro-vacuum, backhoe, hand tools, and transport vehicles. The excavation occurred on-pad within the mapped release extent. To direct excavation activities, soil was screened for chloride using the Mohr Method titration.

The Site excavation area measured approximately 6,647 square feet. A total of approximately 680 cubic yards of soil was removed. The soil was transported and properly disposed of at the R360 Hobbs Facility in New Mexico.

Following removal of impacted soil, 5-point composite soil samples were collected at least every 200 square feet from the floor of the excavation and every 200 feet from the sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Excavation floor soil samples (FS01 through FS33) were collected at depths ranging from 1-foot to 3 feet bgs and excavation sidewall soil samples (SW01 through SW04) were collected at depths ranging from the ground surface to 2 feet bgs. The excavation extent and excavation soil sample locations are presented on Figure 4.

Ensolum personnel returned to the Site on June 20, 2024, to advance composite floor samples that exceeded the approved background chloride limit. Excavation floor soil samples FS03 and FS04 were advanced via hand tools to a depth of 4 feet bgs and excavation floor samples FS06 through FS07 were advanced to a depth of 14 feet and 12 feet bgs, respectively, via trackhoe. Excavation floor sample locations FS03 and FS04 could not be advanced deeper than 4 feet bgs due to the proximity of the tank containment and associated pipping and equipment. Approximately 120 cubic yards of additional soil were removed from the release area. The soil was transported and properly disposed of at the R360 Hobbs Facility in New Mexico.

Ensolum personnel returned to the Site on September 3, 2024, to collect sidewalls on the west, east, and south sides of confirmation sample areas FS03 and FS04. Sidewall soil sample SW05 collected at depths ranging from ground surface to 4 feet bgs laterally and vertically defines the west side of the Area of Requested Deferral (FS03 and FS04) and sidewall soil sample SW06 collected at depths ranging from ground surface to 4 feet bgs laterally defines the east side. The north side of the Area of Requested Deferral (FS03 and FS04) is laterally and vertically defined by confirmation floor soil sample FS02@2 ft bgs. Sidewall sample SW07, collected at depths ranging from 4 feet bgs to 14 feet bgs, is located directly beneath the catwalk stairs and north of confirmation sample area's FS05@ 2 ft bgs and FS06@14 ft bgs. The catwalk stairs and associated production equipment are preventing the removal of chloride containing soil and therefore SW07 is included in the Area of Requested Deferral.



Confirmation sidewall soil samples SW08 and SW09 collected at depths ranging from ground surface to 14 feet and 12 feet bgs, respectively, laterally and vertically define confirmation soil sample areas FS06@2 ft bgs and FS07@2 ft bgs on the west and east sides of the excavation extent. Confirmation sidewall soil samples SW10 through SW12 laterally and vertically define confirmation sample areas FS05@2 ft bgs, FS06@2 ft bgs, FS07@2 ft bgs, and FS08@2 ft bgs on the south side of the excavation extent.

#### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation floor samples and excavation sidewall samples were all in compliance with the Site Closure Criteria and reclamation requirement and/or the proposed Site-specific background concentration with the exception of confirmation floor samples FS03 and FS04 collected at a depth of 4 feet bgs. Laboratory analytical results for confirmation sidewall soil samples (SW05 through SW12) were all in compliance with the proposed Site-specific background concentration with the exception of confirmation sidewall soil sample SW07 collected at a depth ranging from 4 feet bgs to 14 feet bgs. Laboratory analytical results are summarized in Tables 3 and 4 and laboratory analytical reports are included as Appendix D.

#### **DEFERRAL REQUEST**

Matador is requesting deferral of final remediation due to the presence of active production equipment (tank containment, transfer pumps, process piping, and the stairs to the catwalk), which prevent the full excavation of impacted soil in confirmation sample locations FS03, FS04, and SW07. The estimated area of remaining impacted soil measures approximately 483 square feet, and assuming a depth of up to 14 feet bgs based on confirmation floor sample FS06@14 ft bgs, a total of approximately 250 cubic yards of impacted soil remains in place. The deferral area and delineation soil samples are depicted on Figure 5.

Impacted soil is limited to the area around active production equipment, where remediation would require a major facility deconstruction. The release extent has been laterally defined by delineation soil samples (SS01 through SS05) at ground surface and vertically defined by delineation pothole samples (PH01 and PH02 at 2 feet bgs, PH03 at 10 feet bgs, BH01 at 9 feet bgs, BH02 at 6 feet bgs, and borehole sample BH03 at 11 feet bgs) and by confirmation floor sample FS06@14 ft bgs.

Matador does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be 60 feet bgs, and all accessible impacted soil was removed to the Maximum Extent Possible (MEP) during excavation activities. Matador requests deferral of final remediation for Incident Number nAPP2332849245 until final reclamation of the well pad or major construction, whichever comes first.

If you have any questions or comments, please contact Ms. Ashley Giovengo at (575) 988-0055 or agiovengo@ensolum.com.

Sincerely, **Ensolum**, **LLC** 

Ashley Giovengo Senior Scientist Daniel R. Moir, PG (licensed in WY & TX) Senior Managing Geologist

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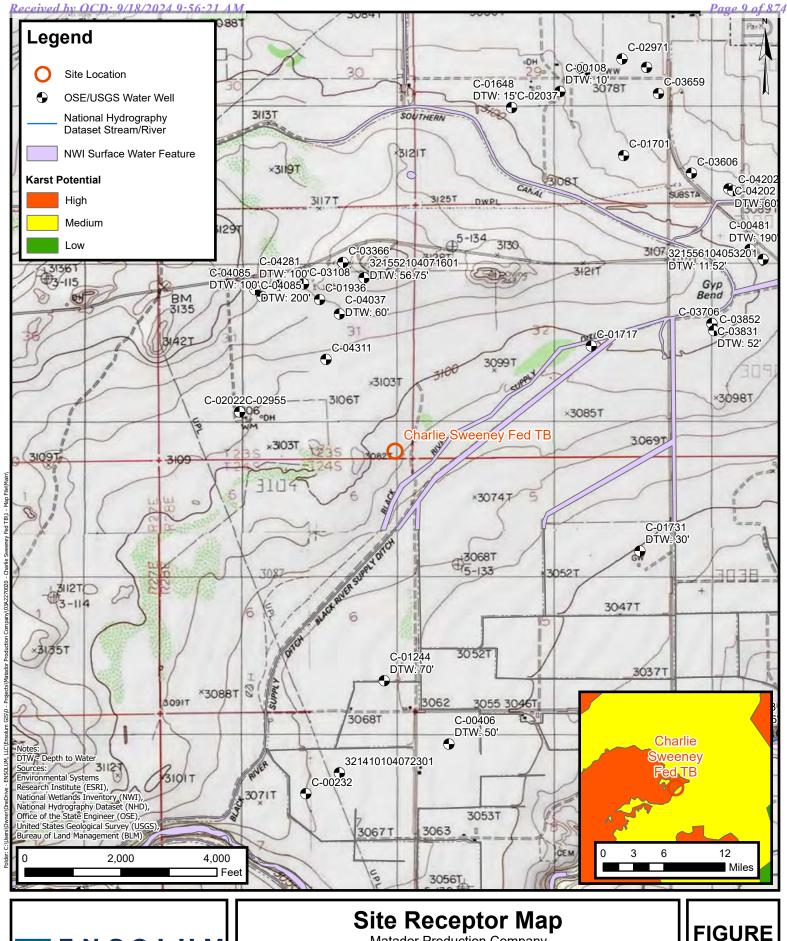


## Appendices:

| Figure 1                 | Site Receptor Map                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------|
| Figure 2                 | Delineation Soil Sample Locations                                                                                  |
| Figure 3                 | Background Soil Sample Locations                                                                                   |
| Figure 4                 | Confirmation Soil Sample Locations                                                                                 |
| Figure 5                 | Area of Requested Deferral                                                                                         |
| Table 1<br>Table 2       | Soil Sample Analytical Results (Delineation Soil Samples) Soil Sample Analytical Results (Background Soil Samples) |
| Table 3                  | Soil Sample Analytical Results (Confirmation Floor Soil Samples)                                                   |
| Table 4                  | Soil Sample Analytical Results (Confirmation Sidewall Soil Samples)                                                |
| Appendix A               | Referenced Well Records                                                                                            |
| Appendix B               | Photographic Log                                                                                                   |
| Appendix C               | Lithologic Soil Sampling Logs                                                                                      |
| Appendix D<br>Appendix E | Laboratory Analytical Reports & Chain-of-Custody Documentation NMOCD Correspondence                                |
| Appendix F               | Referenced Reports                                                                                                 |
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**FIGURES** 

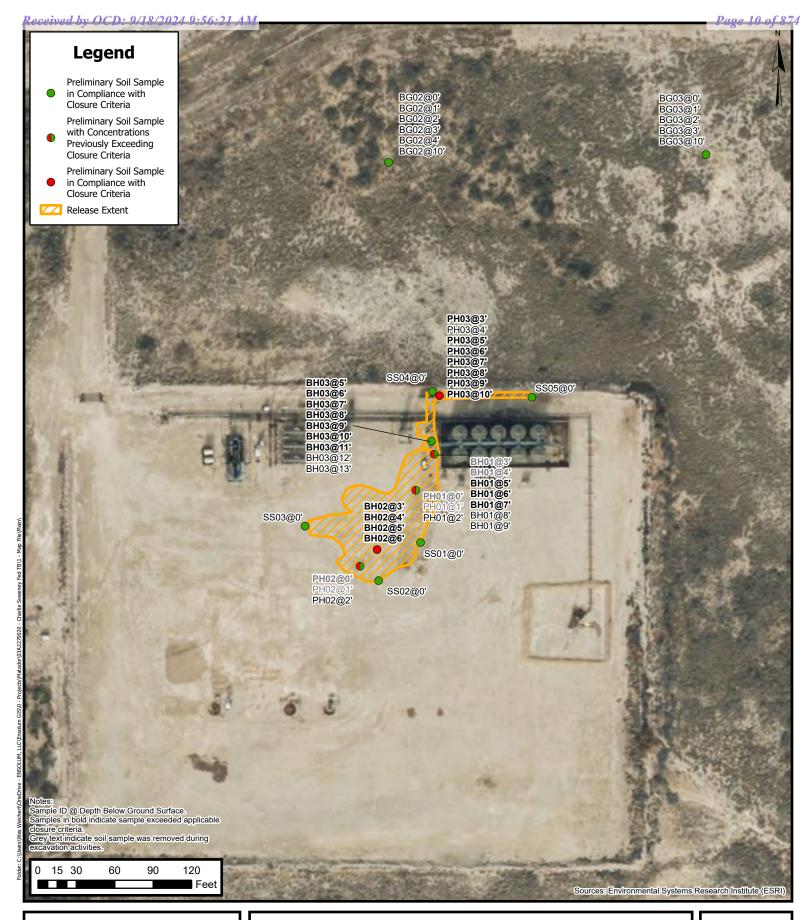




Matador Production Company
Charlie Sweeney Fed TB
Incident Number: nAPP2332849245
Unit P, Section 31, Township 23S, Range 28E
Eddy Co., New Mexico

FIGURE 1

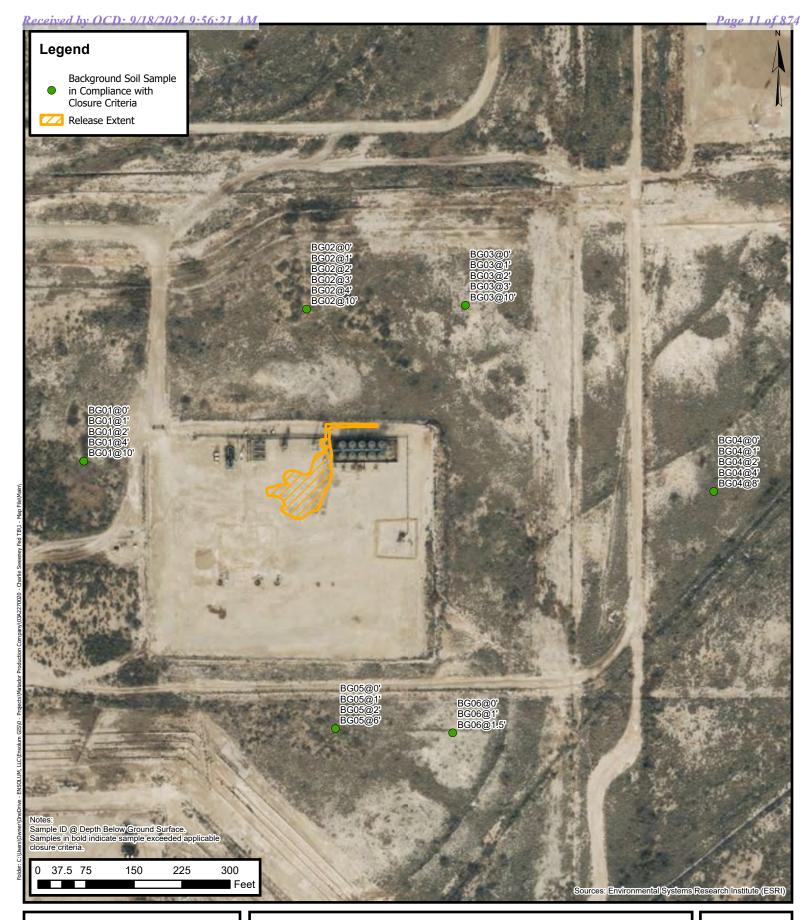
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# **Delineation Soil Sample Locations**

Matador Production Company Charlie Sweeney Fed TB Incident Number: nAPP2332849245 Unit P, Section 31, Township 23S, Range 28E Eddy Co., New Mexico FIGURE 2





# **Background Soil Sample Locations**

Matador Production Company Charlie Sweeney Fed TB Incident Number: nAPP2332849245 Unit P, Section 31, Township 23S, Range 28E Eddy Co., New Mexico FIGURE 3



30

40 Feet

excavation activities. 5 10

20

# **Confirmation Soil Sample Locations**

Matador Production Company Charlie Sweeney Fed TB Incident Number: nAPP2332849245 Unit P, Section 31, Township 23S, Range 28E Eddy Co., New Mexico

**FIGURE** 

Sources: Environmental Systems Research Institute (ESRI)



# **Area of Requested Deferral**

Matador Production Company Charlie Sweeney Fed TB Incident Number: nAPP2332849245 Unit P, Section 31, Township 23S, Range 28E Eddy Co., New Mexico FIGURE 5

Sources: Environmental Systems Research Institute (ESRI)

Feet



**TABLES** 



#### TABLE 1

### **SOIL SAMPLE ANALYTICAL RESULTS**

Charlie Sweeney Fed TB Matador Production Company Eddy County, New Mexico

|                       |                                |                     |                    |                    |                    | , New Mexico       |                 |                    |                      |                     |                    |
|-----------------------|--------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|-----------------|--------------------|----------------------|---------------------|--------------------|
| Sample<br>Designation | Date                           | Depth<br>(feet bgs) | Benzene<br>(mg/kg) | Total BTEX (mg/kg) | TPH GRO<br>(mg/kg) | TPH DRO<br>(mg/kg) | TPH ORO (mg/kg) | GRO+DRO<br>(mg/kg) | Total TPH<br>(mg/kg) | Chloride<br>(mg/kg) | Sulfate<br>(mg/kg) |
| NMOCD Tal             | ole I Closure Cri<br>19.15.29) | teria (NMAC         | 10                 | 50                 | NE                 | NE                 | NE              | NE                 | 100                  | 1,328*              | NE                 |
|                       |                                |                     |                    |                    | Delineation        | Soil Samples       |                 |                    |                      |                     |                    |
| SS01                  | 11/27/2023                     | 0                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | <200                | NA                 |
| SS02                  | 11/27/2023                     | 0                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | 445                 | NA                 |
| SS03                  | 11/27/2023                     | 0                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | 317                 | NA                 |
| SS04                  | 11/27/2023                     | 0                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | <200                | NA                 |
| SS05                  | 11/27/2023                     | 0                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | <200                | NA                 |
| PH01                  | 12/6/2023                      | 0                   | < 0.0250           | < 0.0250           | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | 6,670               | NA                 |
| PH01                  | 12/6/2023                      | 1                   | < 0.0250           | < 0.0250           | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | <200                | NA                 |
| PH01                  | 12/6/2023                      | 2                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | <200                | NA                 |
| PH02                  | 12/6/2023                      | 0                   | < 0.0250           | < 0.0250           | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | 4,320               | NA                 |
| PH02                  | 12/6/2023                      | 1                   | < 0.0250           | < 0.0250           | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | 333                 | NA                 |
| PH02                  | 12/6/2023                      | 2                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | 378                 | NA                 |
| PH03                  | 1/25/2024                      | 3                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | 1,550               | 19,700             |
| PH03                  | 1/25/2024                      | 4                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | 1,150               | 19,900             |
| PH03                  | 1/25/2024                      | 5                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | 2,630               | 23,000             |
| PH03                  | 1/25/2024                      | 6                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | 2,650               | 22,100             |
| PH03                  | 1/25/2024                      | 7                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | 2,420               | 21,200             |
| PH03                  | 1/25/2024                      | 8                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | 2,440               | 21,500             |
| PH03                  | 1/25/2024                      | 9                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | 2,220               | 20,600             |
| PH03                  | 1/25/2024                      | 10                  | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0           | <20.0              | <20.0                | 1,610               | 19,200             |
| BH01                  | 1/30/2024                      | 3                   | NA                 | NA                 | NA                 | NA                 | NA              | NA                 | NA                   | 4,320               | 18,500             |
| BH01                  | 1/30/2024                      | 4                   | NA                 | NA                 | NA                 | NA                 | NA              | NA                 | NA                   | 2,270               | 15,500             |
| BH01                  | 1/30/2024                      | 5                   | NA                 | NA                 | NA                 | NA                 | NA              | NA                 | NA                   | 2,850               | 17,900             |
| BH01                  | 1/30/2024                      | 6                   | NA                 | NA                 | NA                 | NA                 | NA              | NA                 | NA                   | 2,760               | 25,000             |
| BH01                  | 1/30/2024                      | 7                   | NA                 | NA                 | NA                 | NA                 | NA              | NA                 | NA                   | 1,710               | 22,000             |
| BH01                  | 1/30/2024                      | 8                   | NA                 | NA                 | NA                 | NA                 | NA              | NA                 | NA                   | 1,090               | 20,700             |
| BH01                  | 1/30/2024                      | 9                   | NA                 | NA                 | NA                 | NA                 | NA              | NA                 | NA                   | 957                 | 20,100             |



## TABLE 1 - CONT'D

#### **SOIL SAMPLE ANALYTICAL RESULTS**

Charlie Sweeney Fed TB
Matador Production Company
Eddy County, New Mexico

|                       |                                                   |                     |                    |                    | Eddy Godiney       | , IVOW MICKIEG     |                    |                    |                      |                     |                    |
|-----------------------|---------------------------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|---------------------|--------------------|
| Sample<br>Designation | Date                                              | Depth<br>(feet bgs) | Benzene<br>(mg/kg) | Total BTEX (mg/kg) | TPH GRO<br>(mg/kg) | TPH DRO<br>(mg/kg) | TPH ORO<br>(mg/kg) | GRO+DRO<br>(mg/kg) | Total TPH<br>(mg/kg) | Chloride<br>(mg/kg) | Sulfate<br>(mg/kg) |
| NMOCD Tal             | NMOCD Table I Closure Criteria (NMAC<br>19.15.29) |                     | 10                 | 50                 | NE                 | NE                 | NE                 | NE                 | 100                  | 1,328*              | NE                 |
|                       |                                                   |                     |                    |                    | Delineation        | Soil Samples       |                    |                    |                      |                     |                    |
| BH02                  | 1/30/2024                                         | 3                   | NA                   | 1,700               | 21,400             |
| BH02                  | 1/30/2024                                         | 4                   | NA                   | 1,490               | 22,000             |
| BH02                  | 1/30/2024                                         | 5                   | NA                   | 1,540               | 22,100             |
| BH02                  | 1/30/2024                                         | 6                   | NA                   | 1,430               | 20,800             |
| BH03                  | 7/12/2024                                         | 5                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0              | <20.0              | <20.0                | 4,370               | 12,200             |
| BH03                  | 7/12/2024                                         | 6                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0              | <20.0              | <20.0                | 3,080               | 20,200             |
| BH03                  | 7/12/2024                                         | 7                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0              | <20.0              | <20.0                | 2,400               | 19,400             |
| BH03                  | 7/12/2024                                         | 8                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0              | <20.0              | <20.0                | 1,710               | 18,800             |
| BH03                  | 7/12/2024                                         | 9                   | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0              | <20.0              | <20.0                | 1,560               | 18,600             |
| BH03                  | 7/12/2024                                         | 10                  | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0              | <20.0              | <20.0                | 1,440               | 16,900             |
| BH03                  | 7/12/2024                                         | 11                  | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0              | <20.0              | <20.0                | 1,380               | 16,800             |
| BH03                  | 7/12/2024                                         | 12                  | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0              | <20.0              | <20.0                | 1,110               | 16,300             |
| BH03                  | 7/12/2024                                         | 13                  | <0.0250            | <0.0250            | <20.0              | <25.0              | <50.0              | <20.0              | <20.0                | 1,230               | 20,000             |

#### Notes:

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Grey text represents samples that have been excavated

"<": Laboratory Analytical result is less than reporting limit

 ${\it Concentrations in} \ \ {\it bold} \ \ {\it exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.}$ 

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

NA: Not Analyzed

<sup>\*</sup> Naturally occuring chloride level approved by NMOCD



## TABLE 2

#### **SOIL SAMPLE ANALYTICAL RESULTS**

Charlie Sweeney Fed TB
Matador Production Company
Eddy County, New Mexico

|                       |                                |                     |                    |                    | Eddy County        | , New Mexico       |                    |                    |                      |                     |                    |
|-----------------------|--------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|---------------------|--------------------|
| Sample<br>Designation | Date                           | Depth<br>(feet bgs) | Benzene<br>(mg/kg) | Total BTEX (mg/kg) | TPH GRO<br>(mg/kg) | TPH DRO<br>(mg/kg) | TPH ORO<br>(mg/kg) | GRO+DRO<br>(mg/kg) | Total TPH<br>(mg/kg) | Chloride<br>(mg/kg) | Sulfate<br>(mg/kg) |
| NMOCD Tab             | ole I Closure Cri<br>19.15.29) | teria (NMAC         | 10                 | 50                 | NE                 | NE                 | NE                 | NE                 | 100                  | 1,328*              | NE                 |
|                       |                                |                     |                    |                    | Background         | Soil Samples       |                    |                    |                      |                     |                    |
| BG01                  | 1/31/2024                      | 0                   | NA                   | <200                | 16,900             |
| BG01                  | 1/31/2024                      | 1                   | NA                   | <200                | 17,500             |
| BG01                  | 1/31/2024                      | 2                   | NA                   | <200                | 17,300             |
| BG01                  | 1/31/2024                      | 4                   | NA                   | <200                | 17,200             |
| BG01                  | 1/31/2024                      | 10                  | NA                   | <200                | 17,200             |
| BG02                  | 1/31/2024                      | 0                   | NA                   | 60.3                | 275                |
| BG02                  | 1/31/2024                      | 1                   | NA                   | 3,920               | 15,000             |
| BG02                  | 1/31/2024                      | 2                   | NA                   | 4,260               | 12,600             |
| BG02                  | 1/31/2024                      | 3                   | NA                   | 4,050               | 24,300             |
| BG02                  | 1/31/2024                      | 4                   | NA                   | <1000               | 19,200             |
| BG02                  | 1/31/2024                      | 10                  | NA                   | <1000               | 20,700             |
| BG03                  | 1/31/2024                      | 0                   | NA                   | 11,800              | 20,500             |
| BG03                  | 1/31/2024                      | 1                   | NA                   | <400                | 1,770              |
| BG03                  | 1/31/2024                      | 2                   | NA                   | <400                | 2,460              |
| BG03                  | 1/31/2024                      | 3                   | NA                   | <400                | 1,790              |
| BG03                  | 1/31/2024                      | 10                  | NA                   | <400                | 2,160              |
| BG04                  | 1/31/2024                      | 0                   | NA                   | <200                | 16,900             |
| BG04                  | 1/31/2024                      | 1                   | NA                   | <400                | 2,400              |
| BG04                  | 1/31/2024                      | 2                   | NA                   | <400                | 2,270              |
| BG04                  | 1/31/2024                      | 4                   | NA                   | <400                | 2,370              |
| BG04                  | 1/31/2024                      | 8                   | NA                   | <100                | 17,600             |
| BG05                  | 1/31/2024                      | 0                   | NA                   | 395                 | 18,100             |
| BG05                  | 1/31/2024                      | 1                   | NA                   | 592                 | 19,800             |
| BG05                  | 1/31/2024                      | 2                   | NA                   | 244                 | 20,000             |
| BG05                  | 1/31/2024                      | 6                   | NA                   | <200                | 18,400             |



#### TABLE 2 - CONT'D

#### **SOIL SAMPLE ANALYTICAL RESULTS**

Charlie Sweeney Fed TB
Matador Production Company
Eddy County, New Mexico

|                                                   | Eddy County, New Mexico |     |                    |                       |                    |                    |                    |                    |                      |                     |                    |  |
|---------------------------------------------------|-------------------------|-----|--------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|----------------------|---------------------|--------------------|--|
| Sample<br>Designation                             |                         |     | Benzene<br>(mg/kg) | Total BTEX<br>(mg/kg) | TPH GRO<br>(mg/kg) | TPH DRO<br>(mg/kg) | TPH ORO<br>(mg/kg) | GRO+DRO<br>(mg/kg) | Total TPH<br>(mg/kg) | Chloride<br>(mg/kg) | Sulfate<br>(mg/kg) |  |
| NMOCD Table I Closure Criteria (NMAC<br>19.15.29) |                         |     | 10                 | 50                    | NE                 | NE                 | NE                 | NE                 | 100                  | 1,328*              | NE                 |  |
|                                                   |                         |     |                    |                       | Background         | Soil Samples       |                    |                    |                      |                     |                    |  |
| BG06                                              | 1/31/2024               | 0   | NA                 | NA                    | NA                 | NA                 | NA                 | NA                 | NA                   | 5,470               | 26,100             |  |
| BG06                                              | 1/31/2024               | 1   | NA                 | NA                    | NA                 | NA                 | NA                 | NA                 | NA                   | 739                 | 19,000             |  |
| BG06                                              | 1/31/2024               | 1.5 | NA                 | NA                    | NA                 | NA                 | NA                 | NA                 | NA                   | 356                 | 18,200             |  |

#### Notes:

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Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

NA: Not Analyzed

<sup>\*</sup> Naturally occuring chloride level approved by NMOCD



## TABLE 3

#### **SOIL SAMPLE ANALYTICAL RESULTS**

Charlie Sweeney Fed TB
Matador Production Company
Eddy County, New Mexico

|                       |                  | <del> </del>        |                    | Eddy               | County, New M      | exico              |                    |                    |                      |                     |
|-----------------------|------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|---------------------|
| Sample<br>Designation | Date             | Depth<br>(feet bgs) | Benzene<br>(mg/kg) | Total BTEX (mg/kg) | TPH GRO<br>(mg/kg) | TPH DRO<br>(mg/kg) | TPH ORO<br>(mg/kg) | GRO+DRO<br>(mg/kg) | Total TPH<br>(mg/kg) | Chloride<br>(mg/kg) |
| NMOCD Table I         | Closure Criteria | (NMAC 19.15.29)     | 10                 | 50                 | NE                 | NE                 | NE                 | NE                 | 100                  | 1,328*              |
|                       |                  |                     |                    | Confirma           | ation Floor Soil   | Samples            |                    |                    |                      |                     |
| FS01                  | 1/29/2024        | 2                   | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 835                 |
| FS02                  | 1/29/2024        | 2                   | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 1,170               |
| FS03                  | 1/29/2024        | 2                   | < 0.0250           | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 2,090               |
| FS03                  | 6/21/2024        | 4                   | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 3,080               |
| FS04                  | 1/29/2024        | 2                   | < 0.0250           | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 1,430               |
| FS04                  | 6/21/2024        | 4                   | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 2,840               |
| FS05                  | 1/29/2024        | 2                   | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 996                 |
| FS06                  | 1/29/2024        | 2                   | < 0.0250           | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 1,880               |
| FS06                  | 6/24/2024        | 14                  | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | <200                |
| FS07                  | 1/29/2024        | 2                   | < 0.0250           | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 1,960               |
| FS07                  | 6/24/2024        | 12                  | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | <200                |
| FS08                  | 1/29/2024        | 2                   | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 1,050               |
| FS09                  | 1/29/2024        | 2                   | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 437                 |
| FS10                  | 1/29/2024        | 1                   | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 394                 |
| FS11                  | 1/29/2024        | 1                   | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 348                 |
| FS12                  | 1/29/2024        | 1                   | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 381                 |
| FS13                  | 1/29/2024        | 1                   | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 328                 |
| FS14                  | 1/29/2024        | 1                   | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 219                 |
| FS15                  | 1/29/2024        | 1.5                 | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 533                 |
| FS16                  | 1/29/2024        | 2                   | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 1,210               |
| FS17                  | 1/29/2024        | 2                   | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 890                 |
| FS18                  | 1/24/2024        | 1                   | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 339                 |
| FS19                  | 1/29/2024        | 1.5                 | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 515                 |
| FS20                  | 1/29/2024        | 1                   | < 0.0250           | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 582                 |
| FS20                  | 1/30/2024        | 3                   | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 281                 |
| FS21                  | 1/29/2024        | 1                   | < 0.0250           | < 0.0500           | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 285                 |
| FS21                  | 1/30/2024        | 3                   | <0.0250            | <0.0500            | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | <200                |



#### **TABLE 3 - CONT'D**

#### **SOIL SAMPLE ANALYTICAL RESULTS**

Charlie Sweeney Fed TB Matador Production Company Eddy County, New Mexico

| Sample<br>Designation | Date             | Depth<br>(feet bgs) | Benzene<br>(mg/kg) | Total BTEX<br>(mg/kg) | TPH GRO<br>(mg/kg) | TPH DRO<br>(mg/kg) | TPH ORO<br>(mg/kg) | GRO+DRO<br>(mg/kg) | Total TPH<br>(mg/kg) | Chloride<br>(mg/kg) |
|-----------------------|------------------|---------------------|--------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|----------------------|---------------------|
| NMOCD Table I         | Closure Criteria | (NMAC 19.15.29)     | 10                 | 50                    | NE                 | NE                 | NE                 | NE                 | 100                  | 1,328*              |
|                       |                  |                     |                    | Confirma              | ation Floor Soil   | Samples            |                    |                    |                      |                     |
| FS22                  | 1/29/2024        | 1                   | <0.0250            | <0.0500               | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 227                 |
| FS23                  | 1/29/2024        | 1                   | <0.0250            | <0.0500               | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 272                 |
| FS24                  | 1/29/2024        | 2                   | <0.0250            | <0.0500               | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 1,000               |
| FS25                  | 1/29/2024        | 2                   | <0.0250            | <0.0500               | <20.0              | 26.4               | <50.0              | 26.4               | 26.4                 | 783                 |
| FS26                  | 1/24/2024        | 1                   | <0.0250            | <0.0500               | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 344                 |
| FS27                  | 1/29/2024        | 1                   | <0.0250            | <0.0500               | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 349                 |
| FS28                  | 1/29/2024        | 1                   | <0.0250            | <0.0500               | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 555                 |
| FS29                  | 1/29/2024        | 2                   | <0.0250            | <0.0500               | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 1,320               |
| FS30                  | 1/24/2024        | 1                   | <0.0250            | <0.0500               | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 403                 |
| FS31                  | 1/29/2024        | 2                   | <0.0250            | <0.0500               | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 901                 |
| FS32                  | 1/24/2024        | 1                   | <0.0250            | <0.0500               | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 418                 |
| FS33                  | 1/29/2024        | 1.5                 | <0.0250            | <0.0500               | <20.0              | <25.0              | <50.0              | <25.0              | <50.0                | 200                 |

#### Notes:

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Concentrations in bold exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

\* Naturally occuring chloride level approved by NMOCD

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



#### **TABLE 4**

#### **SOIL SAMPLE ANALYTICAL RESULTS**

Charlie Sweeney Fed TB
Matador Production Company
Eddy County, New Mexico

|                       |                  |                     |                    |                       | oounty, reon in    | 24.00              |                    |                    |                      |                     |
|-----------------------|------------------|---------------------|--------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|----------------------|---------------------|
| Sample<br>Designation | Date             | Depth<br>(feet bgs) | Benzene<br>(mg/kg) | Total BTEX<br>(mg/kg) | TPH GRO<br>(mg/kg) | TPH DRO<br>(mg/kg) | TPH ORO<br>(mg/kg) | GRO+DRO<br>(mg/kg) | Total TPH<br>(mg/kg) | Chloride<br>(mg/kg) |
| NMOCD Table I         | Closure Criteria | (NMAC 19.15.29)     | 10                 | 50                    | NE                 | NE                 | NE                 | NE                 | 100                  | 1,328*              |
|                       |                  |                     |                    | Confirmat             | ion Sidewall So    | il Samples         |                    |                    |                      |                     |
| SW01                  | 1/29/2024        | 0-2                 | <0.0250            | <0.0250               | <20.0              | <25.0              | <50.0              | <25.0              | <25.0                | 175                 |
| SW02                  | 1/29/2024        | 0-2                 | <0.0250            | <0.0250               | <20.0              | <25.0              | <50.0              | <25.0              | <25.0                | 283                 |
| SW03                  | 1/29/2024        | 0-2                 | <0.0250            | <0.0250               | <20.0              | <25.0              | <50.0              | <25.0              | <25.0                | 494                 |
| SW04                  | 1/29/2024        | 0-2                 | <0.0250            | <0.0250               | <20.0              | <25.0              | <50.0              | <25.0              | <25.0                | 311                 |
| SW05                  | 9/3/2024         | 0-5                 | -                  | -                     | -                  | -                  | -                  | -                  | -                    | <200                |
| SW06                  | 9/3/2024         | 0-4                 | -                  | -                     | -                  | -                  | -                  | -                  | -                    | 723                 |
| SW07                  | 9/3/2024         | 4-14                | -                  | -                     | -                  | -                  | -                  | -                  | -                    | 3,720               |
| SW08                  | 9/3/2024         | 0-14                | -                  | -                     | -                  | -                  | -                  | -                  | -                    | 651                 |
| SW09                  | 9/3/2024         | 0-12                | -                  | -                     | -                  | -                  | -                  | -                  | -                    | 132                 |
| SW10                  | 9/3/2024         | 4-14                | -                  | -                     | -                  | -                  | -                  | -                  | -                    | 448                 |
| SW11                  | 9/3/2024         | 4-14                | -                  | -                     | -                  | -                  | -                  | -                  | -                    | 184                 |
| SW12                  | 9/3/2024         | 4-12                | -                  | -                     | -                  | -                  | -                  | -                  | -                    | 674                 |

#### Notes:

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\* Naturally occuring chloride level approved by NMOCD

GRO: Gasoline Range Organics
DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



**APPENDIX A** 

Well Log and Record





2917 AUG 28 AN 10: 47

|                      |                   |             |                           |                            | . 4.5 1. 975                          |             | The property of the second             |                    | The state of the s |                                       |
|----------------------|-------------------|-------------|---------------------------|----------------------------|---------------------------------------|-------------|----------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
|                      | OSE POD NO        | . (WELL NO  | ).)                       | WELL TAG ID                | NO.                                   |             | OSE FILE NO(S                          | 5).                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| ION                  | C-4037            |             |                           |                            |                                       |             |                                        |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| AND WELL LOCATION    | WELL OWN          |             | )<br>idstream LLC         |                            |                                       |             | PHONE (OPTIO                           | ONAL)              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| 07                   |                   |             |                           |                            |                                       |             |                                        |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| TT                   | WELL OWN          |             | g ADDRESS<br>ce Suite 675 |                            |                                       |             | Houston                                | -                  | TX 77084                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ZIP                                   |
| WE                   | 104.50 Falk       | - Ten Fiat  |                           |                            |                                       |             | riouston                               | <del> </del>       | 17 77004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
| QN.                  | WELL              |             | DE                        | GREES MINUTES              | SECONDS                               |             |                                        |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
|                      | LOCATIO           | N LA        | TITUDE 32                 | _ 15                       | 45.1                                  | N           | ]                                      | REQUIRED: ONE TENT | TH OF A SECOND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |
| ER                   | (FROM GF          | 'S) LO      | NGITUDE 104               | 07                         | 23.8                                  | W           | * DATUM REC                            | UIRED: WGS 84      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| GENERAL              | DESCRIPTION       | ON RELATI   | NG WELL LOCATION TO       | STREET ADDRESS AND COM     | MON LANDMARK                          | S – PLS     | S (SECTION, TO                         | WNSHJIP, RANGE) WH | ERE AVAILABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |
| 1.(                  | Well is off       | of Bound    | ls Rd. at Sendero ref     | inery. Location is close t | o the northern                        | fence       | line.                                  |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
|                      | L VOCTORE NO      |             | L MANUE OF LIGHTER        | DDG LPB                    |                                       |             | ······································ | NAME OF WELL DR    | ILLING COMPANY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |
|                      | LICENSE NO<br>WD- |             | NAME OF LICENSED          | Clinton E. Tay             | vlor                                  |             |                                        |                    | Water Well Service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | •                                     |
|                      | DRILLING S        |             | DRILLING ENDED            | DEPTH OF COMPLETED WEL     |                                       | DE HO       | LE DEPTH (FT)                          | DEPTH WATER FIRE   | ST ENCOUNTERED (FT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |
|                      | 7/17/2            |             | 7/18/2017                 | 98.5                       | 2017                                  |             | 100                                    |                    | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | •                                     |
|                      |                   |             |                           |                            |                                       |             |                                        | STATIC WATER LEV   | EL IN COMPLETED WI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ELL (FT)                              |
|                      | COMPLETE          | D WELL IS:  | ARTESIAN                  | DRY HOLE SHA               | LLOW (UNCONFIN                        | VED)        |                                        | •                  | 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                       |
| & CASING INFORMATION | DRILLING F        | I IIID:     | ☑ AIR                     | MUD ADD                    | ITIVES - SPECIFY                      | <del></del> |                                        | L ,                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ··· · · · · · · · · · · · · · · · · · |
| MAT                  |                   |             | ROTARY                    | IIAMMER CAB                |                                       |             | R - SPECIFY:                           |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| OR                   | DRILLING N        | terrioo:    | P ROTART                  |                            |                                       |             | N-BIECH II                             |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                                     |
| Ž                    | DEPTH             | (feet bgl)  | BORE HOLE                 | CASING MATERIAL A<br>GRADE | AND/OR                                | C           | ASING                                  | CASING             | CASING WALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SLOT                                  |
| S                    | FROM              | ТО          | DIAM                      | (include each casing str   | ing, and                              |             | NECTION<br>TYPE                        | INSIDE DIAM.       | THICKNESS (inches)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SIZE (inches)                         |
| AS                   |                   |             | (inches)                  | note sections of scre      | een) (ad                              | d coup      | ling diameter)                         | (inches)           | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (========                             |
| 33                   | +1.5              | 58.5        | 8 1/2                     | PVC                        |                                       |             | Spline                                 | 4 1/2              | SDR 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | .032                                  |
| N                    | 58.5              | 98.5        | 8 1/2                     | PVC                        |                                       |             | Spline                                 | 4 1/2              | 30817                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | .032                                  |
| DRILLING             |                   |             |                           |                            |                                       |             |                                        |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                                     |
| 2. DE                |                   |             |                           |                            |                                       |             |                                        |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _                                     |
| 7                    |                   | <br>        |                           |                            |                                       |             |                                        |                    | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
|                      |                   |             |                           |                            |                                       | ·           |                                        |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                                     |
|                      |                   |             |                           |                            |                                       | ,           |                                        |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| 1114                 |                   |             |                           |                            | · · ·                                 |             |                                        | <del></del>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
|                      |                   |             |                           |                            |                                       |             |                                        |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
|                      | ПЕРТЫ             | (feet bgl)  | DODE HOLE                 | LIST ANNULAI               | SEAT MATER                            | TAT /       | AND                                    | AMOUNT             | метно                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | D OF                                  |
| 1                    |                   | TO          | BORE HOLE DIAM. (inches)  | GRAVEL PACK S              |                                       |             |                                        | (cubic feet)       | PLACE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       |
| N.                   | FROM<br>0         | 20          | 8 1/2                     | 20%                        | Bentonite Grout                       |             |                                        | 3 Sacks            | Tren                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | iie                                   |
| ATE                  | 20                | 98,5        | 8 1/2                     |                            | " Pea Gravel                          |             |                                        | 2 Yards            | Dun                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u> </u>                              |
| ANNULAR MATERIAL     |                   | , , , , , , |                           |                            |                                       |             |                                        |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| [A]                  |                   |             |                           |                            |                                       |             |                                        |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| N.C.                 |                   |             |                           |                            |                                       |             |                                        |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| 3. A                 |                   |             |                           |                            |                                       |             |                                        |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
|                      |                   |             |                           |                            |                                       |             |                                        |                    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       |
| E07                  | OCE PERCE         | NIAT TICT   | ,                         | 1                          | · · · · · · · · · · · · · · · · · · · |             | 337D 04                                | NAMELI DECORD      | & LOG (Version 06/3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10/17)                                |
|                      | OSE INTER         | <del></del> | 737                       | POD                        | NO.                                   | <br>        | TRN N                                  | 7 4817             | 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0/1//                                 |
|                      | ATION D           | - 11<br>- 1 |                           | 235.28€.                   |                                       | l           | WELL TAG II                            | <u> </u>           | PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 OF 2                                |
| ٠٠٠٠                 | J                 | ויין        | J4111 .                   | ナータンドクスリモ・                 | ン・・ヘンプ                                | tl.         | White TAU II                           | <i>-</i> 110.      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |

PAGE 2 OF 2

WELL TAG ID NO.

|                              |               |              |                                       |                                       |                                                                       |                               | , . ,                     |                      |                    |                                                |
|------------------------------|---------------|--------------|---------------------------------------|---------------------------------------|-----------------------------------------------------------------------|-------------------------------|---------------------------|----------------------|--------------------|------------------------------------------------|
| S. Je                        | DEPTH (:      | feet bgl) TO | THICKNESS (feet)                      | INCLUDE WAT                           | ND TYPE OF MATERIA<br>ER-BEARING CAVITIE<br>applemental sheets to ful | S OR FRACTURE                 | ZONES                     | WA'<br>BEAR<br>(YES  | JNG?               | ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm) |
|                              | 0             | . 5          | 5                                     | C                                     | Clay: rd,sme stringers of w                                           | ht anhydrite                  |                           | Y                    | ✓ N                |                                                |
|                              | 5             | 32           | 27                                    | Anhydrit                              | te:frstd,rd,clr,swht,fn xln-e                                         | lns,sme rd silt stone         | 3                         | Y                    | ✓ N                |                                                |
|                              | 32            | 52           | 20                                    |                                       | Clay:rd,smth,stky i                                                   |                               |                           | Y                    | ✓ N                |                                                |
| n in in                      | 52            | 60           | 8                                     |                                       | Clay:rd brn,sndy,                                                     | ilty                          | ·····                     | Y                    | ✓ N                |                                                |
|                              | 60            | 82           | 22                                    | Clay:rd,brn,                          | slty,thin layers of fretd w                                           | <del></del>                   | ater                      | v Y                  | N                  |                                                |
| ا بر                         | 82            | 100          | 18                                    | Clay:rd brn,                          | sme rd siltstone,sme thin                                             | layers of wht anhyo           | lrite                     | ✓ Y                  | N                  | 8.00                                           |
| VEL                          |               |              |                                       |                                       |                                                                       |                               |                           | Υ                    | N                  |                                                |
| OF                           |               |              |                                       |                                       |                                                                       | v .                           |                           | Y                    | N                  |                                                |
| ĐO.                          |               |              |                                       |                                       |                                                                       |                               |                           | Y                    | N                  |                                                |
| IC I                         |               |              |                                       |                                       |                                                                       |                               |                           | Y                    | N                  |                                                |
| 507                          | · ,           |              |                                       |                                       |                                                                       |                               |                           | Y                    | N                  |                                                |
| EO                           |               |              |                                       |                                       | · · · · · · · · · · · · · · · · · · ·                                 |                               |                           | Y                    | N                  |                                                |
| 4. HYDROGEOLOGIC LOG OF WELL |               |              |                                       |                                       |                                                                       |                               |                           | Y                    | N                  |                                                |
| HXD                          |               | <u> </u>     |                                       |                                       | · · · · · · · · · · · · · · · · · · ·                                 |                               |                           | Y                    | N                  |                                                |
| 4                            |               | • •          |                                       |                                       | · · · · · · · · · · · · · · · · · · ·                                 |                               |                           | Y                    | N                  |                                                |
| . 76                         |               |              |                                       |                                       |                                                                       | <del></del>                   |                           | Y                    | N                  |                                                |
|                              |               |              |                                       |                                       |                                                                       |                               |                           | Ÿ                    | N                  |                                                |
|                              |               |              |                                       |                                       |                                                                       |                               |                           | Υ                    | N                  |                                                |
|                              |               |              |                                       |                                       |                                                                       |                               |                           | Y                    | N                  |                                                |
|                              |               |              |                                       |                                       | <del></del>                                                           |                               |                           | Y                    | N                  |                                                |
| 201                          |               |              |                                       |                                       |                                                                       |                               |                           | Y                    | N                  |                                                |
|                              | METHOD U      | SED TO ES    | TIMATE YIELD                          | OF WATER-BEARIN                       | NG STRATA:                                                            |                               | TOT                       | AL ESTIM             | IATED              |                                                |
|                              | <b>₽</b> PUMI | P []Al       | IR LIFT                               | BAILER O                              | THER - SPECIFY:                                                       |                               | WEI                       | LL YIELD             | (gpm);             | 8.00                                           |
| ION                          | WELL TES      | T TEST I     | RESULTS - ATT.<br>I TIME, END TI      | ACH A COPY OF DA<br>ME, AND A TABLE S | TA COLLECTED DURING DISCHARGE                                         | NG WELL TESTIN<br>AND DRAWDOW | IG, INCLUDI<br>IN OVER TH | NG DISCI<br>E TESTIN | HARGE I<br>G PERIC | METHOD,<br>OD                                  |
| VISI                         | MISCELLAI     | NEOUS INF    | ORMATION: W                           | ater quality is about                 | 3000 parts per million                                                | of total disolved             | solids.                   |                      |                    |                                                |
| TEST; RIG SUPERVIS           |               |              |                                       |                                       | · · · · · · · · · · · · · · · · · · ·                                 |                               |                           |                      |                    |                                                |
| 380                          |               |              |                                       |                                       |                                                                       |                               | •                         |                      |                    |                                                |
| 13                           | ÷             |              |                                       |                                       |                                                                       |                               |                           |                      |                    |                                                |
| EST                          | PRINT NAM     | (E(S) OF DE  | RILL RIG SUPER                        | VISOR(S) THAT PRO                     | OVIDED ONSITE SUPER                                                   | VISION OF WEL                 | L CONSTRU                 | CTION O              | THER TH            | IAN LICENSEE                                   |
| 5. 1                         |               | (,           |                                       |                                       |                                                                       |                               | _ 001.011.0               |                      |                    |                                                |
| (1) (A)                      |               |              |                                       |                                       |                                                                       |                               |                           |                      |                    |                                                |
| 6. SIGNATURE                 | CORRECT F     | RECORD OF    | F THE ABOVE D                         | DESCRIBED HOLE AT                     | BEST OF HIS OR HER I<br>ND THAT HE OR SHE V<br>MPLETION OF WELL DI    | VILL FILE THIS V              |                           |                      |                    |                                                |
| SIGN                         | . (           |              |                                       |                                       | CE Taylor                                                             |                               |                           | 8/23/                | /2017              |                                                |
| 9                            |               | SIGNATI      | URE OF DRILLE                         | R / PRINT SIGNEE                      | NAME                                                                  |                               |                           |                      | DATE               |                                                |
| FOR                          | OSE INTERI    | NAL USE      |                                       |                                       | ·                                                                     |                               | O WELL DE                 | ርብዩኮ & ፣             | OG Wee             | rsion 06/30/2017)                              |
|                              | E NO.         |              | · · · · · · · · · · · · · · · · · · · |                                       | POD NO.                                                               | TRN                           |                           | COICE IX             | ( v cı             | 3001 00/30/2017)                               |

LOCATION

Tom Blaine, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

604776

File Nbr:

C 04037

Well File Nbr: C 04037 POD1

Sep. 01, 2017

SAM HEFFINGTON TRAILHEAD ENGINEERING 16430 PARK TEN PLACE SUITE 675 HOUSTON, TX 77084

#### Greetings:

The well driller's record for the above numbered well has been received in this office indicating your well has been completed.

Your permit was granted with the condition that a meter(s) be installed and meter readings submitted to this office.

Per Condition 5B, please advise this office within 30 days, on the attached form, of the make, model, serial number, date of installation, and initial reading of the meter(s) prior to appropriation of the water.

If you have any questions, please feel free to contact us.

Yolanda Mendiola (575) 622 - 6521

Enclosure

wellcon5



**APPENDIX B** 

Photographic Log

### Photographic Log

Matador Production Company Charlie Sweeney Fed TB Incident Number nAPP2332849245





Date: 11/27/23

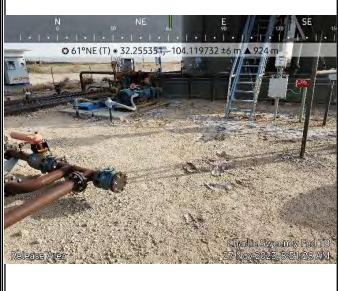
Date: 11/27/23

Photograph 1
Description: Spill Area

ription: Spili Area View: West Date: 11/27/23 Ph

Photograph 2

Description: Spill Area View: Northeast





Photograph 3

Description: Spill Area View: Northeast

Date: 11/27/23

Photograph 4

Description: Spill Area

View: East

#### **Photographic Log**

**Matador Production Company** Charlie Sweeney Fed TB Incident Number nAPP2332849245





Photograph 5

Description: Delineation

View: West

Date: 12/6/23 Photograph 6

Description: Hydro-vac lines

View: North





Photograph 7

Date: 1/23/24

Photograph 8

Date: 1/24/24

Date: 1/23/24

Description: Excavation

View: East

View: East

Description: Excavation

### Photographic Log

Matador Production Company
Charlie Sweeney Fed TB
Incident Number nAPP2332849245





Photograph 9 Date: 1/24/24

Description: Hydro-vac around lines

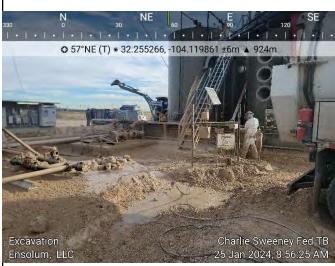
View: East

Photograph 10

Description: Excavation

View: East





Photograph 11

Date: 1/25/24

Photograph 12

Date: 1/25/24

Date: 1/25/24

Description: PH03 delineation

Description: Hydro-vac around pipelines

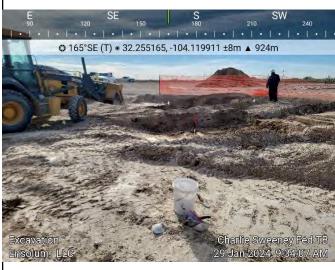
View: East

View: East

### Photographic Log

Matador Production Company
Charlie Sweeney Fed TB
Incident Number nAPP2332849245





Photograph 13
Description: Excavation

View: South

Date: 1/26/24

Date: 1/29/24

Photograph 14

Description: Excavation

View:

NW 330 NE 60
358°N (T) 
32.255439, -104.11 9808 ±7m 
939m

Hand digging Charlie Sweeney Fed TB. 29 Jan 2024, 10388.34 AM



Photograph 15
Description: Hand digging

scription. Haria algging

View: North

Photograph 16

Description: Excavation

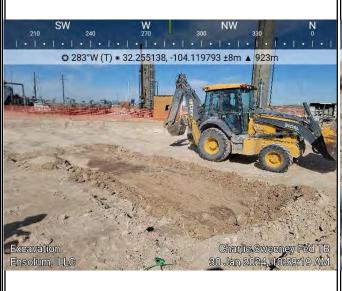
View: East

Date: 1/29/24

Date: 1/29/24

#### Photographic Log

Matador Production Company Charlie Sweeney Fed TB Incident Number nAPP2332849245





Photograph 17
Description: Excavation

Description: Excavation
View: Northwest

Date: 1/30/24

Photograph 18

Description: BH02

Date: 1/30/24

Date: 1/31/24

View: South





Photograph 19 Description: BG01 Date: 1/31/24

Photograph 20

Description: BG02

View: East

Page 5 of 8

View: Northeast



#### Photographic Log

Matador Production Company
Charlie Sweeney Fed TB
Incident Number nAPP2332849245





Photograph 21 Date: 1/31/24 Photograph 22 Date: 1/31/24

Description: BG03 Description: BG04

View: East View: Northwest





Photograph 23 Date: 1/31/24 Photograph 24 Date: 1/31/24

Description: BG05

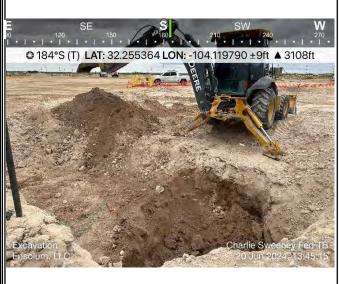
View: Northeast

Description: BG06

View: Northwest

### Photographic Log

Matador Production Company Charlie Sweeney Fed TB Incident Number nAPP2332849245





Photograph 25
Description: Excavation

cription: Excavation
View: South

Photograph 26

Description: Excavation

View: Northeast





Photograph 27
Description: Excavation

View: Northwest

Date: 06/24/24

Date: 6/20/24

Photograph 28 Description: BH03

View: East

Date: 07/12/24

Date: 6/24/24

### **Photographic Log**

Matador Production Company
Charlie Sweeney Fed TB
Incident Number nAPP2332849245





Photograph 29 Date: 09/03/2024 Photograph 30 Date: 09/03/2024

Description: Sidewall Sampling Description: Sidewall Sampling

View: Southwest View: Northwest





Photograph 31 Date: 09/03/2024 Photograph 32 Date: 09/03/2024

Description: Sidewall Sampling Description: Sidewall Sampling

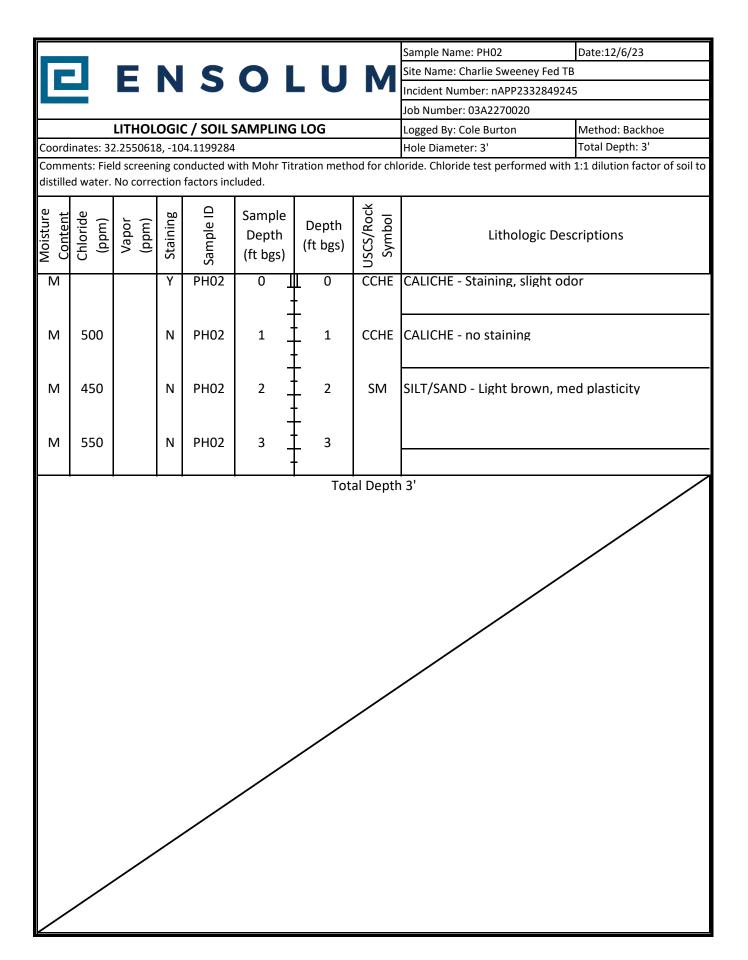
View: South View: West



# **APPENDIX C**

Lithologic Soil Sampling Logs

| V V                                      |                                                               |          |            |                             |                   |                     | Sample Name: PH01                      | Date:12/6/23                        |  |  |  |  |
|------------------------------------------|---------------------------------------------------------------|----------|------------|-----------------------------|-------------------|---------------------|----------------------------------------|-------------------------------------|--|--|--|--|
|                                          |                                                               | N        | S          |                             | _ U               | M                   | Site Name: Charlie Sweeney F           |                                     |  |  |  |  |
|                                          |                                                               |          |            |                             |                   |                     | Incident Number: nAPP2332849245        |                                     |  |  |  |  |
|                                          |                                                               |          |            |                             |                   |                     | Job Number: 03A2270020                 |                                     |  |  |  |  |
|                                          | LITHOL                                                        | OGI      | C / SOIL S | SAMPLING                    | LOG               |                     | Logged By: Cole Burton Method: Backhoe |                                     |  |  |  |  |
| Coordinates: 3                           |                                                               |          |            |                             |                   |                     | Hole Diameter: 3'                      | Total Depth: 4'                     |  |  |  |  |
| Comments: Fie distilled water.           |                                                               |          |            |                             | ration meth       | od for chl          | oride. Chloride test performed         | with 1:1 dilution factor of soil to |  |  |  |  |
| Moisture<br>Content<br>Chloride<br>(ppm) | Vapor<br>(ppm)                                                | Staining | Sample ID  | Sample<br>Depth<br>(ft bgs) | Depth<br>(ft bgs) | USCS/Rock<br>Symbol |                                        | Descriptions                        |  |  |  |  |
| M 5,900                                  |                                                               | Υ        | PH01       | 0 ]                         | 0                 | CCHE                | CALICHE - Staining, sligh              | t odor                              |  |  |  |  |
|                                          |                                                               |          |            | <u>-</u>                    | -<br>-            |                     |                                        |                                     |  |  |  |  |
| M 200                                    |                                                               |          |            |                             |                   |                     |                                        |                                     |  |  |  |  |
| M 250                                    | M 250 N PH01 2 1 2 SM SILT/SAND - Light brown, med plasticity |          |            |                             |                   |                     |                                        |                                     |  |  |  |  |
| M 350                                    |                                                               | N        | PH01       | 3 _                         | 3                 |                     |                                        |                                     |  |  |  |  |
| M 300                                    |                                                               | N        | PH01       | 4                           | -<br>-<br>- 4     |                     |                                        |                                     |  |  |  |  |
|                                          |                                                               |          |            |                             | Tota              | I Depth             | = 4'                                   |                                     |  |  |  |  |



|                     |           |          |        |                          |                          |                                    |                                   | Sample Name: PH03                                                               | Date:1/25/24                 |  |
|---------------------|-----------|----------|--------|--------------------------|--------------------------|------------------------------------|-----------------------------------|---------------------------------------------------------------------------------|------------------------------|--|
|                     | 7         |          | NI     | C                        |                          | U                                  | M                                 | Site Name: Charlie Sweeney Fed                                                  | ТВ                           |  |
|                     |           |          |        |                          |                          | _ 0                                |                                   | Incident Number: nAPP23328492                                                   | 245                          |  |
|                     |           |          |        |                          |                          |                                    |                                   | Job Number: 03A2270020                                                          |                              |  |
|                     |           | LITHOL   | OGI    | C / SOIL S               | SAMPLING                 | LOG                                | Logged By: Cole Burton            | Method: Backhoe                                                                 |                              |  |
| Coord               | nates: 32 | 2.255426 | 8, -10 | 4.1197237                |                          |                                    | Hole Diameter: 3'                 | Total Depth: 10.2'                                                              |                              |  |
|                     |           |          | _      | nducted w<br>factors inc |                          | oride. Chloride test performed wit | th 1:1 dilution factor of soil to |                                                                                 |                              |  |
| Moisture<br>Content |           |          |        |                          |                          |                                    |                                   | Lithologic Descriptions                                                         |                              |  |
| М                   |           |          | Υ      | PH03                     | 0 ]                      | 0                                  | CCHE                              | CALICHE - Staining, slight o                                                    | dor                          |  |
| М                   |           |          | N      | PH03                     | 1<br>1<br>-              | -<br>-<br>- 1<br>-                 | ССНЕ                              | CALICHE - no staining                                                           |                              |  |
| М                   |           |          | N      | PH03                     | 2                        | 2                                  | GYP                               | GYPSUM - pale white, micr<br>No HC stain or odor.                               | o crystaline,                |  |
| М                   | 1,150     |          | N      | PH03                     | 3                        | 3                                  |                                   |                                                                                 |                              |  |
| М                   | 1,000     |          | N      | PH03                     | 4 _                      | -<br>4<br>-                        |                                   |                                                                                 |                              |  |
| D                   | 2,500     |          | N      | PH03                     | 5 _                      | -<br>-<br>5<br>-                   | GYP                               | GYPSUM - pale white/tan,<br>trace very fine tan sand an<br>No HC stain or odor. | micro crystaline,<br>d silt. |  |
| D                   | 2,250     |          | N      | PH03                     | 6                        | -<br>_ 6<br>-                      |                                   |                                                                                 |                              |  |
| D                   | 2,000     |          | N      | PH03                     | 7                        | 7                                  |                                   |                                                                                 |                              |  |
| D                   | 2,200     |          | N      | PH03                     | 8 <u>-</u><br>8 <u>-</u> | -<br>-<br>8<br>-                   |                                   |                                                                                 |                              |  |
| D                   | 1,800     |          | N      | PH03                     | 9 _                      | 9                                  |                                   |                                                                                 |                              |  |
| D<br>D              | 1,400     |          | N<br>N | PH03<br>PH03             | 10<br>10.2               | 10                                 | GYP<br>GYP                        | GYPSUM, pale white/red, r<br>GYPSUM - solid rock                                | micro crystaline             |  |

Total Depth = 10.2'

|                     |                                                                                                             |        |     |             |            |                                |                         | Sample Name: BH01                                                                     | Date:1/30/24                            |
|---------------------|-------------------------------------------------------------------------------------------------------------|--------|-----|-------------|------------|--------------------------------|-------------------------|---------------------------------------------------------------------------------------|-----------------------------------------|
| 7                   | 7                                                                                                           |        |     |             |            |                                |                         | Site Name: Charlie Sweeney Fed TE                                                     |                                         |
|                     |                                                                                                             |        | N   | S           | OI         | Incident Number: nAPP233284924 |                         |                                                                                       |                                         |
|                     |                                                                                                             |        |     |             |            | Job Number: 03A2270020         |                         |                                                                                       |                                         |
|                     |                                                                                                             | LITHOL | OGI | . / ເດນ ເ   | SAMPLING   | 2106                           |                         |                                                                                       |                                         |
| Coordi              |                                                                                                             |        |     | 4.1197376   |            | LOG                            |                         | Logged By: Cole Burton Hole Diameter: 3"                                              | Method: Hand Auger<br>Total Depth: 9.1' |
|                     |                                                                                                             |        |     |             |            | ration math                    | ad for chi              | oride. Chloride test performed with                                                   | · ·                                     |
|                     |                                                                                                             |        | _   | factors inc |            | .iation metir                  | ou for chi              |                                                                                       | 1.1 dilution factor of soil to          |
| Moisture<br>Content | Content Content Content Chloride (ppm) Vapor Vapor (ppm) Staining Sample ID Debth (tt pds) USCS/Rock Symbol |        |     |             |            |                                | Lithologic Descriptions |                                                                                       |                                         |
| M                   |                                                                                                             |        | Υ   | BH01        | 0          | 0                              | CCHE                    | CALICHE - Staining, slight ode                                                        | or                                      |
| М                   |                                                                                                             |        | N   | BH01        | 1 _        | 1                              | ССНЕ                    | CALICHE - no staining                                                                 |                                         |
| М                   |                                                                                                             |        | N   | BH01        | 2 _        | 2                              | SP                      | SAND - brown, veryfine, with<br>No HC stain or odor.                                  | n silt, some gypsum,                    |
| М                   | 3,800                                                                                                       |        | N   | BH01        | 3 _        | 3                              | SP                      |                                                                                       |                                         |
| М                   | 2,300                                                                                                       |        | N   | BH01        | 4 _        | 4                              | SP                      |                                                                                       |                                         |
| М                   | 2,700                                                                                                       |        | N   | BH01        | 5 _        | 5<br>-                         | SP-SC                   | SAND/SILT - Light brown, mosome inclusions of clay, red low plastictity, low cohesion | edium grained,<br>~1-3 cm,              |
| М                   | 2,600                                                                                                       |        | N   | BH01        | 6          | 6                              | SP-SC                   |                                                                                       |                                         |
| М                   | 1,800                                                                                                       |        | N   | BH01        | 7 _        | 7                              | SP-SC                   |                                                                                       |                                         |
| М                   | 1,150                                                                                                       |        | N   | BH01        | 8 <u>-</u> | 8                              | SP-SC                   |                                                                                       |                                         |
| М                   | 1,200                                                                                                       |        | N   | BH01        | 9 _        | 9                              | SP-SC                   |                                                                                       |                                         |
|                     |                                                                                                             |        |     | BH01        | 9.1        | 9.1                            | GYP                     | GYPSUM - Solid rock                                                                   |                                         |
|                     |                                                                                                             |        |     |             |            | Total                          | Depth =                 |                                                                                       |                                         |
|                     |                                                                                                             |        |     |             |            | 10tai                          | - cptii -               |                                                                                       |                                         |
|                     |                                                                                                             |        |     |             |            |                                |                         |                                                                                       |                                         |
|                     |                                                                                                             |        |     |             |            |                                |                         |                                                                                       |                                         |
|                     |                                                                                                             |        |     |             |            |                                |                         |                                                                                       |                                         |
|                     |                                                                                                             |        |     |             |            |                                |                         |                                                                                       |                                         |
|                     |                                                                                                             |        |     |             |            |                                |                         |                                                                                       |                                         |

|                     |                                                                                |          |        |                          |          |                                    |                                  |                                                    | 1                     |  |  |  |  |
|---------------------|--------------------------------------------------------------------------------|----------|--------|--------------------------|----------|------------------------------------|----------------------------------|----------------------------------------------------|-----------------------|--|--|--|--|
| ·                   |                                                                                | _        |        |                          |          |                                    |                                  | Sample Name: BH02                                  | Date:1/30/24          |  |  |  |  |
|                     |                                                                                | F        | N      | 5                        | OI       | Site Name: Charlie Sweeney Fed TB  |                                  |                                                    |                       |  |  |  |  |
|                     |                                                                                |          |        |                          |          |                                    |                                  |                                                    |                       |  |  |  |  |
|                     |                                                                                |          |        |                          |          |                                    | Job Number: 03A2270020           |                                                    |                       |  |  |  |  |
|                     |                                                                                | LITHOL   | OGI    | C / SOIL S               | SAMPLING | LOG                                | Logged By: Cole Burton           | Method: Hand Auger                                 |                       |  |  |  |  |
| Coord               | inates: 32                                                                     | 2.255097 | 8, -10 | 4.1198847                |          |                                    |                                  | Hole Diameter: 3"                                  | Total Depth: 6'       |  |  |  |  |
|                     |                                                                                |          | _      | nducted w<br>factors inc |          | oride. Chloride test performed wit | h 1:1 dilution factor of soil to |                                                    |                       |  |  |  |  |
| Moisture<br>Content | Content Content Chloride (ppm) Vapor (ppm) Sample ID Staining USCS/Rock Symbol |          |        |                          |          |                                    |                                  | Lithologic Descriptions                            |                       |  |  |  |  |
| М                   |                                                                                |          | Υ      | BH02                     | 0        | 0                                  | CCHE                             | CALICHE - Staining, slight o                       | dor                   |  |  |  |  |
| М                   |                                                                                |          |        |                          |          |                                    |                                  | CALICHE - no staining                              |                       |  |  |  |  |
| M                   |                                                                                |          | N      | BH02                     | 2 _      | 2                                  |                                  |                                                    |                       |  |  |  |  |
| М                   | 1,550                                                                          |          | N      | BH02                     | 3 _      | 3<br>-                             | SP                               | SAND - brown, veryfine, wi<br>No HC stain or odor. | th silt, some gypsum, |  |  |  |  |
| М                   | 1,500                                                                          |          | N      | BH02                     | 4 _      | -<br>-<br>-                        | SP                               |                                                    |                       |  |  |  |  |
| М                   | 1,600                                                                          |          | N      | BH02                     | 5 _      | -<br>-<br>5                        | SP                               |                                                    |                       |  |  |  |  |
| М                   | 1,500                                                                          |          | N      | BH02                     | 6        | -<br>_ 6                           | SP                               |                                                    |                       |  |  |  |  |
|                     |                                                                                |          |        |                          |          | <b>T</b> .1.                       | I D I .                          | C1                                                 |                       |  |  |  |  |
|                     | Total Depth = 6'                                                               |          |        |                          |          |                                    |                                  |                                                    |                       |  |  |  |  |

|                     |                   |                |          |            |                             |                                                     |                         | Sample Name: BH03                                                                      | Date: 7/12/2024                      |  |
|---------------------|-------------------|----------------|----------|------------|-----------------------------|-----------------------------------------------------|-------------------------|----------------------------------------------------------------------------------------|--------------------------------------|--|
|                     | 7                 |                | NI       | 6          |                             | U                                                   |                         | Site Name: Charlie Sweeney Fed                                                         | d TB                                 |  |
|                     |                   |                |          |            |                             | _ U                                                 |                         | Incident Number: nAPP2332849                                                           | 9245                                 |  |
|                     |                   |                |          |            |                             |                                                     |                         | Job Number: 03A2270020                                                                 |                                      |  |
|                     |                   | LITHOL         | OGIO     | C / SOIL S | SAMPLING                    | LOG                                                 |                         | Logged By: Cole Burton                                                                 | Method: Hand Auger                   |  |
| Coord               | inates: 32        | 2.25533,       | 104.1    | 11975      |                             |                                                     |                         | Hole Diameter: 3"                                                                      | Total Depth: 13'                     |  |
|                     |                   |                |          |            |                             | PID for chloride and vapor, responsations included. | ectively. Chloride test |                                                                                        |                                      |  |
| Moisture<br>Content | Chloride<br>(ppm) | Vapor<br>(ppm) | Staining | Sample ID  | Sample<br>Depth<br>(ft bgs) | Depth<br>(ft bgs)                                   | USCS/Rock<br>Symbol     | Lithologic Descriptions                                                                |                                      |  |
| D                   |                   |                | N        | BH03       | 1                           | 0                                                   | CCHE                    | Caliche - No staining, No o                                                            | odor                                 |  |
| D                   |                   |                | N        | вноз       | -<br>-<br>-<br>-            | -<br>-<br>-<br>1                                    |                         |                                                                                        |                                      |  |
| D                   |                   |                | N        | вноз       | -<br>-<br>-                 | <u> </u>                                            |                         |                                                                                        |                                      |  |
| D                   |                   |                | N        | вн03       | -<br>-<br>-                 | 3                                                   |                         |                                                                                        |                                      |  |
| М                   |                   |                | N        | BH03       | -<br>-<br>-<br>-            | -<br>- 4<br>-                                       |                         |                                                                                        |                                      |  |
| М                   |                   |                | N        | BH03       | 5 <u>-</u><br>5 <u>-</u>    | -<br>-<br>- 5<br>-                                  | SP-SC                   | SAND/SILT - Light brown,<br>some inclusions of clay, re<br>low plastictity, low cohesi | medium grained,<br>ed ~1-3 cm,<br>on |  |
| М                   |                   |                | N        | BH03       | 6 _                         | -<br>_ 6<br>-                                       |                         |                                                                                        |                                      |  |
| М                   |                   |                | N        | BH03       | 7 _                         | 7                                                   |                         |                                                                                        |                                      |  |
| М                   | 1,825             |                | N        | BH03       | 8 _                         | -<br>_ 8<br>-                                       |                         |                                                                                        |                                      |  |
| М                   | 1,702             |                | N        | BH03       | 9 _                         | -<br>_ 9<br>-                                       |                         |                                                                                        |                                      |  |
| М                   | 1,825             |                | N        | BH03       | 10                          | 10                                                  |                         |                                                                                        |                                      |  |
| М                   | 1,702             |                | N        | BH03       | 11                          | _ 11                                                |                         |                                                                                        |                                      |  |
| М                   | 1,181             |                | N        | BH03       | 12                          | 12                                                  |                         |                                                                                        |                                      |  |
| М                   | 1,584             |                | N        | BH03       | 13                          | _ 13                                                |                         |                                                                                        |                                      |  |
|                     |                   |                |          |            | _                           | Γ                                                   | GYP                     | GYPSUM - Solid rock                                                                    |                                      |  |

|                                                                        | Sample Name: BG01                  | Date: 1/30/24                  |  |
|------------------------------------------------------------------------|------------------------------------|--------------------------------|--|
| <b>ENSOLUM</b>                                                         | Site Name: Charlie Sweeney Fed TB  |                                |  |
| E I 3 O L O M                                                          | Incident Number: nAPP2332849245    | 5                              |  |
|                                                                        | Job Number: 03A2270020             |                                |  |
| LITHOLOGIC / SOIL SAMPLING LOG                                         | Logged By: Cole Burton             | Method: Backhoe                |  |
| Coordinates: 32.255284, -103.120983                                    | Hole Diameter: 3'                  | Total Depth: 10'               |  |
| Comments: Field screening conducted with Mohr Titration method for shi | orida Chlorida tast parformad with | 1.1 dilution factor of soil to |  |

Comments: Field screening conducted with Mohr Titration method for chloride. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.

| <b>I</b>            |                   |                |          |           |                             |                   |                     |                                                                      |
|---------------------|-------------------|----------------|----------|-----------|-----------------------------|-------------------|---------------------|----------------------------------------------------------------------|
| Moisture<br>Content | Chloride<br>(ppm) | Vapor<br>(ppm) | Staining | Sample ID | Sample<br>Depth<br>(ft bgs) | Depth<br>(ft bgs) | USCS/Rock<br>Symbol | Lithologic Descriptions                                              |
| M                   | 100               |                | N        | BG01      | 0 ]                         | _ 0<br>-          | GYP                 | GYPSUM - pale white, micro crystaline,<br>No HC stain or odor.       |
| М                   | 200               |                | N        | BG01      | 1 _                         | 1                 | GYP                 |                                                                      |
| М                   | 100               |                | N        | BG01      | 2                           | -<br>_ 2          | GYP                 |                                                                      |
| М                   | 100               |                | N        | BG01      | 3                           | -<br>3            | GYP                 |                                                                      |
| D                   | 100               |                | N        | BG01      | 4                           | -<br>-<br>- 4     | GYP                 |                                                                      |
| D                   | 100               |                | N        | BG01      | 5 <u>-</u>                  | -<br>-<br>- 5     | GYP                 |                                                                      |
| D                   | 100               |                | N        | BG01      | 6                           | -<br>-<br>6       | SP-SM               | SILT/SAND - Dark brown, med plasticity                               |
| D                   | 100               |                | N        | BG01      | 7 _                         | -<br>-<br>- 7     | SP-SM               |                                                                      |
| D                   | 100               |                | N        | BG01      | 8 _                         | -<br>-<br>-<br>8  | SP                  | SAND - Red, veryfine, with silt,<br>No HC stain or odor.             |
| D                   | 100               |                | N        | BG01      | 9 _                         | -<br>_ 9          | SP                  |                                                                      |
| D                   | 100               |                | N        | BG01      | 10                          | 10                | SP                  | SAND - Red, veryfine, with silt, some gypsum<br>No HC stain or odor. |
| <b>II</b>           |                   |                |          |           |                             |                   |                     | 101                                                                  |

Total Depth = 10'

|                                                                        | Sample Name: BG02                  | Date: 1/30/24                  |  |
|------------------------------------------------------------------------|------------------------------------|--------------------------------|--|
| <b>ENSOLUM</b>                                                         | Site Name: Charlie Sweeney Fed TB  |                                |  |
| E N 3 O L O M                                                          | Incident Number: nAPP2332849245    | 5                              |  |
|                                                                        | Job Number: 03A2270020             |                                |  |
| LITHOLOGIC / SOIL SAMPLING LOG                                         | Logged By: Cole Burton             | Method: Backhoe                |  |
| Coordinates: 32.255930, -104.119846                                    | Hole Diameter: 3'                  | Total Depth: 10'               |  |
| Comments: Field screening conducted with Mohr Titration method for shi | orida Chlorida tast parformad with | 1.1 dilution factor of soil to |  |

Comments: Field screening conducted with Mohr Titration method for chloride. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.

| - I                 |                   |                |          |           |                             |                   |                     |                                                                   |
|---------------------|-------------------|----------------|----------|-----------|-----------------------------|-------------------|---------------------|-------------------------------------------------------------------|
| Moisture<br>Content | Chloride<br>(ppm) | Vapor<br>(ppm) | Staining | Sample ID | Sample<br>Depth<br>(ft bgs) | Depth<br>(ft bgs) | USCS/Rock<br>Symbol | Lithologic Descriptions                                           |
| М                   | 100               |                | N        | BG02      | 0 ]                         | 0                 | SP-SM               | SAND/SILT - Dark brown, medium grained,<br>No HC stain or odor.   |
| М                   | 4,500             |                | N        | BG02      | 1 _                         | 1                 | SP-SM               |                                                                   |
| M                   | 4,000             |                | N        | BG02      | 2                           | 2                 | SP-SM               |                                                                   |
| М                   | 2,800             |                | N        | BG02      | 3 _                         | -<br>-<br>3       | SP-SM               | Some gypsum inclusions                                            |
| D                   | 800               |                | N        | BG02      | 4 _                         | 4                 | GYP                 | GYPSUM - with red sand, micro crystaline,<br>No HC stain or odor. |
| D                   | 500               |                | N        | BG02      | 5 <u>-</u><br>5 <u>-</u>    | -<br>-<br>5       | GYP                 |                                                                   |
| D                   | 450               |                | Ν        | BG02      | 6                           | -<br>-<br>6       | GYP                 |                                                                   |
| D                   | 500               |                | N        | BG02      | 7 <u>-</u><br>7 <u>-</u>    | -<br>- 7<br>-     | GYP                 |                                                                   |
| D                   | 500               |                | N        | BG02      | 8 _                         | -<br>-<br>8<br>-  | GYP                 |                                                                   |
| D                   | 500               |                | Ν        | BG02      | 9 _                         | -<br>9            | GYP                 |                                                                   |
| D                   | 500               |                | N        | BG02      | 10 <u>-</u>                 | 10                | GYP                 |                                                                   |
|                     |                   |                |          |           |                             |                   |                     |                                                                   |

Total Depth = 10'

|                                                                        | Sample Name: BG03                  | Date: 1/30/24                  |  |
|------------------------------------------------------------------------|------------------------------------|--------------------------------|--|
| <b>ENSOLUM</b>                                                         | Site Name: Charlie Sweeney Fed TB  |                                |  |
| ENSOLUM                                                                | Incident Number: nAPP2332849245    | 5                              |  |
|                                                                        | Job Number: 03A2270020             |                                |  |
| LITHOLOGIC / SOIL SAMPLING LOG                                         | Logged By: Cole Burton             | Method: Backhoe                |  |
| Coordinates: 32.2559399, -104.1190451                                  | Hole Diameter: 3'                  | Total Depth: 10'               |  |
| Comments: Field screening conducted with Mohr Titration method for chl | oride Chloride test performed with | 1.1 dilution factor of soil to |  |

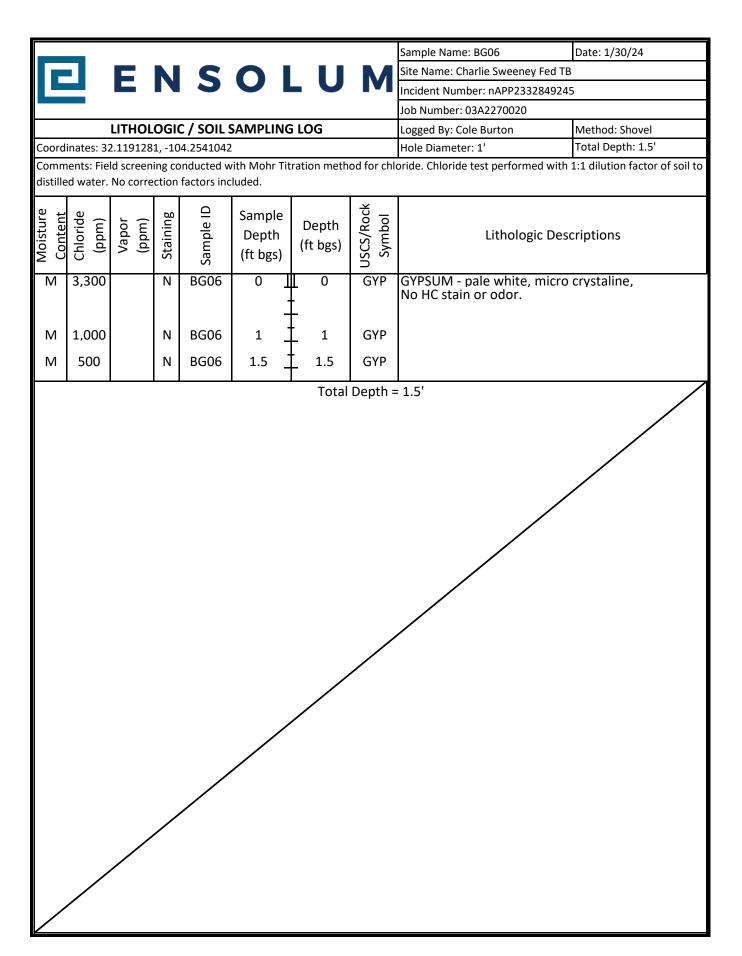
Comments: Field screening conducted with Mohr Titration method for chloride. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.

| Moisture<br>Content | Chloride<br>(ppm) | Vapor<br>(ppm) | Staining | Sample ID | Sample<br>Depth<br>(ft bgs) | Depth<br>(ft bgs)  | USCS/Rock<br>Symbol | Lithologic Descriptions                                           |
|---------------------|-------------------|----------------|----------|-----------|-----------------------------|--------------------|---------------------|-------------------------------------------------------------------|
| M                   | 9,300             |                | N        | BG03      | 0 ]                         | 0                  | GYP                 | GYPSUM - pale white, micro crystaline,<br>No HC stain or odor.    |
| М                   | 2,400             |                | N        | BG03      | 1                           | 1                  | GYP                 |                                                                   |
| М                   | 1,500             |                | N        | BG03      | 2 _                         | -<br>_ 2<br>-      | GYP                 |                                                                   |
| М                   | 500               |                | N        | BG03      | 3 _                         | 3                  | GYP                 |                                                                   |
| D                   | 200               |                | N        | BG03      | 4 _                         | -<br>-<br>4        | GYP                 |                                                                   |
| D                   | 100               |                | N        | BG03      | 5 <u> </u>                  | <u> </u>           | GYP                 |                                                                   |
| D                   | 100               |                | N        | BG03      | 6 _                         | <u>-</u><br>_ 6    | GYP                 |                                                                   |
| D                   | 100               |                | N        | BG03      | 7 <u>-</u>                  | -<br>-<br>- 7<br>- | GYP                 | GYPSUM - with red sand, micro crystaline,<br>No HC stain or odor. |
| D                   | 100               |                | N        | BG03      | 8 <u>-</u>                  | -<br>-<br>8<br>-   | GYP                 | some inclusions of clay, red ~1-3 cm,                             |
| D                   | 150               |                | N        | BG03      | 9 _                         | 9                  | GYP                 |                                                                   |
| D                   | 150               |                | N        | BG03      | 10 _                        | 10                 | GYP                 |                                                                   |
|                     |                   |                |          |           |                             |                    |                     |                                                                   |

Total Depth = 10'

|                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                |          |            |                             |                        |                 |                                                    | 1                |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------|----------|------------|-----------------------------|------------------------|-----------------|----------------------------------------------------|------------------|--|--|--|
| -                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |                |          | _          |                             |                        |                 | Sample Name: BG04                                  | Date: 1/30/24    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                |                   | F              | N        | 5          |                             | LU                     | M               | Site Name: Charlie Sweeney Fed T                   |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                |          |            |                             |                        |                 |                                                    |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                |          |            |                             | Job Number: 03A2270020 |                 |                                                    |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                |                   | LITHOL         | OGI      | C / SOIL S | SAMPLING                    | Logged By: Cole Burton | Method: Backhoe |                                                    |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                |          | 4.1177969  |                             | Hole Diameter: 3'      | Total Depth: 8' |                                                    |                  |  |  |  |
| Comments: Field screening conducted with Mohr Titration method for chloride. Chloride test performed with 1:1 dilution for distilled water. No correction factors included.  Sample Depth (ft bgs)  Solve Depth (ft bgs) |                   |                |          |            |                             |                        |                 |                                                    |                  |  |  |  |
| Moisture<br>Content                                                                                                                                                                                                                                                                                                                                                                                                            | Chloride<br>(ppm) | Vapor<br>(ppm) | Staining | Sample ID  | Sample<br>Depth<br>(ft bgs) | Depth<br>(ft bgs)      | Lithologic De   | scriptions                                         |                  |  |  |  |
| М                                                                                                                                                                                                                                                                                                                                                                                                                              | 100               |                | N        | BG04       | 0 ]                         | 0                      | GYP             | GYPSUM - pale white, micro<br>No HC stain or odor. | o crystaline,    |  |  |  |
| М                                                                                                                                                                                                                                                                                                                                                                                                                              | 800               |                | N        | BG04       | 1 _                         | 1                      | GYP             |                                                    |                  |  |  |  |
| М                                                                                                                                                                                                                                                                                                                                                                                                                              | 400               |                | N        | BG04       | 2 _                         | <u> </u>               | GYP             |                                                    |                  |  |  |  |
| М                                                                                                                                                                                                                                                                                                                                                                                                                              | 200               |                | N        | BG04       | 3 _                         | 3                      | GYP             |                                                    |                  |  |  |  |
| D                                                                                                                                                                                                                                                                                                                                                                                                                              | 300               |                | N        | BG04       | 4                           | -<br>- 4<br>-          | GYP             | GYPSUM - with red sand, m<br>No HC stain or odor.  | icro crystaline, |  |  |  |
| D                                                                                                                                                                                                                                                                                                                                                                                                                              | 200               |                | N        | BG04       | 5 <u>-</u>                  | -<br>-<br>-<br>5       | GYP             |                                                    |                  |  |  |  |
| D                                                                                                                                                                                                                                                                                                                                                                                                                              | 100               |                | N        | BG04       | 6                           | -<br>-<br>-<br>6       | GYP             |                                                    |                  |  |  |  |
| D                                                                                                                                                                                                                                                                                                                                                                                                                              | 200               |                | N        | BG04       | 7 _                         | -<br>-<br>- 7          | GYP             |                                                    |                  |  |  |  |
| D                                                                                                                                                                                                                                                                                                                                                                                                                              | 100               |                | N        | BG04       | 8 <u>-</u><br>8 <u>-</u>    | -<br>-<br>8<br>-       | GYP             | GYPSUM - Solid Rock                                |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                |          |            |                             | Ttota                  | al Depth        | = 8'                                               |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                |          |            |                             |                        |                 |                                                    |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                |          |            |                             |                        |                 |                                                    |                  |  |  |  |
| <b>l</b> _                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |                |          |            |                             |                        |                 |                                                    |                  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                |          |            |                             |                        |                 |                                                    |                  |  |  |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                |          |           |                             |                                 |                        | Sample Name: BG05                                  | Date: 1/30/24 |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------|----------|-----------|-----------------------------|---------------------------------|------------------------|----------------------------------------------------|---------------|--|--|--|--|
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7                                        |                |          |           |                             |                                 | B.4                    | Site Name: Charlie Sweeney Fed TB                  |               |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                | N        | 5         | OI                          | Incident Number: nAPP2332849245 |                        |                                                    |               |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                |          |           |                             | Job Number: 03A2270020          |                        |                                                    |               |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | IITUOI         | OGI      | · / sou s | SAMPLING                    | 106                             | Logged By: Cole Burton | Method: Backhoe                                    |               |  |  |  |  |
| Coord                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | inates: 32                               |                |          |           | AIVIPLING                   | LOG                             | Hole Diameter: 3'      | Total Depth: 6'                                    |               |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                |          |           | ith Mohr Tit                | ration meth                     | od for chl             |                                                    | · ·           |  |  |  |  |
| Comments: Field screening conducted with Mohr Titration method for chloride. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.    Output   Out |                                          |                |          |           |                             |                                 |                        |                                                    |               |  |  |  |  |
| Moisture<br>Content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | )                                        | Vapor<br>(ppm) | Staining | Sample ID | Sample<br>Depth<br>(ft bgs) | Lithologic Des                  | criptions              |                                                    |               |  |  |  |  |
| М                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 550                                      |                | N        | BG05      | 0 <u> </u><br>-             | <u> </u>                        | GYP                    | GYPSUM - pale white, micro<br>No HC stain or odor. | crystaline,   |  |  |  |  |
| М                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 700                                      |                | N        | BG05      | 1 _                         | 1                               | GYP                    |                                                    |               |  |  |  |  |
| М                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 300                                      |                | N        | BG05      | 2 _                         | -<br>_ 2<br>-                   | GYP                    |                                                    |               |  |  |  |  |
| М                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 300                                      |                | N        | BG05      | 3 _                         | -<br>_ 3<br>-                   | GYP                    |                                                    |               |  |  |  |  |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 300                                      |                | N        | BG05      | 4 _                         | 4                               | GYP                    |                                                    |               |  |  |  |  |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 300                                      |                | N        | BG05      | 5 _                         | 5<br>5                          | GYP                    |                                                    |               |  |  |  |  |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 250                                      |                | N        | BG05      | 6                           | 6                               | GYP                    |                                                    |               |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                |          |           |                             | Tota                            | l Depth                | = 6'                                               |               |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | D 250 N BG05 6 6 6 GYP  Total Depth = 6' |                |          |           |                             |                                 |                        |                                                    |               |  |  |  |  |





# APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Charlie Sweeney Federal Tank

Battery

Work Order: E311218

Job Number: 23052-0001

Received: 11/29/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 12/5/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/5/23

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Charlie Sweeney Federal Tank Battery

Workorder: E311218

Date Received: 11/29/2023 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/29/2023 8:30:00AM, under the Project Name: Charlie Sweeney Federal Tank Battery.

The analytical test results summarized in this report with the Project Name: Charlie Sweeney Federal Tank Battery apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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## **Sample Summary**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Federal Tank Battery | Reported:      |
|------------------------------|------------------|--------------------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001                           | Keporteu:      |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo                      | 12/05/23 16:18 |

| Client Sample ID | Lab Sample ID Matrix | Sampled  | Received | Container        |
|------------------|----------------------|----------|----------|------------------|
| SS01-0'          | E311218-01A Soil     | 11/27/23 | 11/29/23 | Glass Jar, 2 oz. |
| SS02-0'          | E311218-02A Soil     | 11/27/23 | 11/29/23 | Glass Jar, 2 oz. |
| SS03-0'          | E311218-03A Soil     | 11/27/23 | 11/29/23 | Glass Jar, 2 oz. |
| SS04-0'          | E311218-04A Soil     | 11/27/23 | 11/29/23 | Glass Jar, 2 oz. |
| SS05-0'          | E311218-05A Soil     | 11/27/23 | 11/29/23 | Glass Jar, 2 oz. |



Matador Resources, LLC.Project Name:Charlie Sweeney Federal Tank Battery5400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo12/5/2023 4:18:14PM

## SS01-0' E311218-01

| Reporting                                      |             |        |        |              |                |                |  |
|------------------------------------------------|-------------|--------|--------|--------------|----------------|----------------|--|
| Analyte                                        | Result      | Limit  | Dilut  | ion Prepared | Analyzed       | Notes          |  |
| Volatile Organic Compounds by EPA 8260B        | mg/kg mg/kg |        | А      | Analyst: RKS |                | Batch: 2348052 |  |
| Benzene                                        | ND          | 0.0250 | 1      | 11/29/23     | 11/30/23       |                |  |
| Ethylbenzene                                   | ND          | 0.0250 | 1      | 11/29/23     | 11/30/23       |                |  |
| Toluene                                        | ND          | 0.0250 | 1      | 11/29/23     | 11/30/23       |                |  |
| o-Xylene                                       | ND          | 0.0250 | 1      | 11/29/23     | 11/30/23       |                |  |
| p,m-Xylene                                     | ND          | 0.0500 | 1      | 11/29/23     | 11/30/23       |                |  |
| Total Xylenes                                  | ND          | 0.0250 | 1      | 11/29/23     | 11/30/23       |                |  |
| Surrogate: Bromofluorobenzene                  |             | 114 %  | 70-130 | 11/29/23     | 11/30/23       |                |  |
| Surrogate: 1,2-Dichloroethane-d4               |             | 92.6 % | 70-130 | 11/29/23     | 11/30/23       |                |  |
| Surrogate: Toluene-d8                          |             | 107 %  | 70-130 | 11/29/23     | 11/30/23       |                |  |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg       | mg/kg  | А      | Analyst: RKS | Batch: 2348052 |                |  |
| Gasoline Range Organics (C6-C10)               | ND          | 20.0   | 1      | 11/29/23     | 11/30/23       |                |  |
| Surrogate: Bromofluorobenzene                  |             | 114 %  | 70-130 | 11/29/23     | 11/30/23       |                |  |
| Surrogate: 1,2-Dichloroethane-d4               |             | 92.6 % | 70-130 | 11/29/23     | 11/30/23       |                |  |
| Surrogate: Toluene-d8                          |             | 107 %  | 70-130 | 11/29/23     | 11/30/23       |                |  |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg       | mg/kg  | Α      | Analyst: KM  |                | Batch: 2348073 |  |
| Diesel Range Organics (C10-C28)                | ND          | 25.0   | 1      | 11/30/23     | 12/01/23       |                |  |
| Oil Range Organics (C28-C36)                   | ND          | 50.0   | 1      | 11/30/23     | 12/01/23       |                |  |
| Surrogate: n-Nonane                            |             | 91.9 % | 50-200 | 11/30/23     | 12/01/23       |                |  |
| Anions by EPA 300.0/9056A                      | mg/kg       | mg/kg  | Α      | Analyst: BA  |                | Batch: 2349009 |  |
| Chloride                                       | ND          | 200    | 10     | 12/04/23     | 12/04/23       |                |  |
|                                                |             |        |        |              |                |                |  |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Federal Tank Battery |                     |
|------------------------------|------------------|--------------------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001                           | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo                      | 12/5/2023 4:18:14PM |

### SS02-0'

|                                                |        | Reporting |              |             |          |                |
|------------------------------------------------|--------|-----------|--------------|-------------|----------|----------------|
| Analyte                                        | Result | Limit     | Diluti       | on Prepared | Analyzed | Notes          |
| Volatile Organic Compounds by EPA 8260B        | mg/kg  | mg/kg     | A            | nalyst: RKS |          | Batch: 2348052 |
| Benzene                                        | ND     | 0.0250    | 1            | 11/29/23    | 11/30/23 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1            | 11/29/23    | 11/30/23 |                |
| Toluene                                        | ND     | 0.0250    | 1            | 11/29/23    | 11/30/23 |                |
| o-Xylene                                       | ND     | 0.0250    | 1            | 11/29/23    | 11/30/23 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1            | 11/29/23    | 11/30/23 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1            | 11/29/23    | 11/30/23 |                |
| Surrogate: Bromofluorobenzene                  |        | 117 %     | 70-130       | 11/29/23    | 11/30/23 |                |
| Surrogate: 1,2-Dichloroethane-d4               |        | 95.6 %    | 70-130       | 11/29/23    | 11/30/23 |                |
| Surrogate: Toluene-d8                          |        | 109 %     | 70-130       | 11/29/23    | 11/30/23 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | Analyst: RKS |             |          | Batch: 2348052 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1            | 11/29/23    | 11/30/23 |                |
| Surrogate: Bromofluorobenzene                  |        | 117 %     | 70-130       | 11/29/23    | 11/30/23 |                |
| Surrogate: 1,2-Dichloroethane-d4               |        | 95.6 %    | 70-130       | 11/29/23    | 11/30/23 |                |
| Surrogate: Toluene-d8                          |        | 109 %     | 70-130       | 11/29/23    | 11/30/23 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | A            | nalyst: KM  |          | Batch: 2348073 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1            | 11/30/23    | 12/01/23 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1            | 11/30/23    | 12/01/23 |                |
| Surrogate: n-Nonane                            |        | 93.5 %    | 50-200       | 11/30/23    | 12/01/23 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | A            | nalyst: BA  |          | Batch: 2349009 |
|                                                | 445    | 200       | 10           | 12/04/23    | 12/04/23 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Federal Tank Battery |                     |
|------------------------------|------------------|--------------------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001                           | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo                      | 12/5/2023 4:18:14PM |

### SS03-0'

|                                                |        | Reporting |              |             |          |                |
|------------------------------------------------|--------|-----------|--------------|-------------|----------|----------------|
| Analyte                                        | Result | Limit     | Dilutio      | on Prepared | Analyzed | Notes          |
| Volatile Organic Compounds by EPA 8260B        | mg/kg  | mg/kg     | Ar           | nalyst: RKS |          | Batch: 2348052 |
| Benzene                                        | ND     | 0.0250    | 1            | 11/29/23    | 11/30/23 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1            | 11/29/23    | 11/30/23 |                |
| Toluene                                        | ND     | 0.0250    | 1            | 11/29/23    | 11/30/23 |                |
| o-Xylene                                       | ND     | 0.0250    | 1            | 11/29/23    | 11/30/23 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1            | 11/29/23    | 11/30/23 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1            | 11/29/23    | 11/30/23 |                |
| Surrogate: Bromofluorobenzene                  |        | 117 %     | 70-130       | 11/29/23    | 11/30/23 |                |
| Surrogate: 1,2-Dichloroethane-d4               |        | 92.7 %    | 70-130       | 11/29/23    | 11/30/23 |                |
| Surrogate: Toluene-d8                          |        | 108 %     | 70-130       | 11/29/23    | 11/30/23 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | Analyst: RKS |             |          | Batch: 2348052 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1            | 11/29/23    | 11/30/23 |                |
| Surrogate: Bromofluorobenzene                  |        | 117 %     | 70-130       | 11/29/23    | 11/30/23 |                |
| Surrogate: 1,2-Dichloroethane-d4               |        | 92.7 %    | 70-130       | 11/29/23    | 11/30/23 |                |
| Surrogate: Toluene-d8                          |        | 108 %     | 70-130       | 11/29/23    | 11/30/23 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | Ar           | nalyst: KM  |          | Batch: 2348073 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1            | 11/30/23    | 12/01/23 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1            | 11/30/23    | 12/01/23 |                |
| Surrogate: n-Nonane                            |        | 91.6%     | 50-200       | 11/30/23    | 12/01/23 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | Ar           | nalyst: BA  |          | Batch: 2349009 |
|                                                |        |           |              |             |          |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Federal Tank Battery |                     |
|------------------------------|------------------|--------------------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001                           | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo                      | 12/5/2023 4:18:14PM |

### SS04-0'

|                                                |        | Reporting |        |              |          |                |
|------------------------------------------------|--------|-----------|--------|--------------|----------|----------------|
| Analyte                                        | Result | Limit     | Diluti | on Prepared  | Analyzed | Notes          |
| Volatile Organic Compounds by EPA 8260B        | mg/kg  | mg/kg     | A      | nalyst: RKS  |          | Batch: 2348052 |
| Benzene                                        | ND     | 0.0250    | 1      | 11/29/23     | 11/30/23 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1      | 11/29/23     | 11/30/23 |                |
| Toluene                                        | ND     | 0.0250    | 1      | 11/29/23     | 11/30/23 |                |
| o-Xylene                                       | ND     | 0.0250    | 1      | 11/29/23     | 11/30/23 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1      | 11/29/23     | 11/30/23 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1      | 11/29/23     | 11/30/23 |                |
| Surrogate: Bromofluorobenzene                  |        | 116 %     | 70-130 | 11/29/23     | 11/30/23 |                |
| Surrogate: 1,2-Dichloroethane-d4               |        | 94.3 %    | 70-130 | 11/29/23     | 11/30/23 |                |
| Surrogate: Toluene-d8                          |        | 109 %     | 70-130 | 11/29/23     | 11/30/23 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | A      | Analyst: RKS |          | Batch: 2348052 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1      | 11/29/23     | 11/30/23 |                |
| Surrogate: Bromofluorobenzene                  |        | 116 %     | 70-130 | 11/29/23     | 11/30/23 |                |
| Surrogate: 1,2-Dichloroethane-d4               |        | 94.3 %    | 70-130 | 11/29/23     | 11/30/23 |                |
| Surrogate: Toluene-d8                          |        | 109 %     | 70-130 | 11/29/23     | 11/30/23 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | A      | nalyst: KM   |          | Batch: 2348073 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1      | 11/30/23     | 12/01/23 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1      | 11/30/23     | 12/01/23 |                |
| Surrogate: n-Nonane                            |        | 90.1 %    | 50-200 | 11/30/23     | 12/01/23 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | A      | nalyst: BA   |          | Batch: 2349009 |
|                                                |        |           |        |              |          |                |



Matador Resources, LLC.Project Name:Charlie Sweeney Federal Tank Battery5400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo12/5/20234:18:14PM

#### SS05-0'

| Reporting                                      |             |                    |        |              |          |                |  |
|------------------------------------------------|-------------|--------------------|--------|--------------|----------|----------------|--|
| Analyte                                        | Result      | Limit              | Diluti | ion Prepared | Analyzed | Notes          |  |
| Volatile Organic Compounds by EPA 8260B        | mg/kg mg/kg |                    | A      | nalyst: RKS  |          | Batch: 2348052 |  |
| Benzene                                        | ND          | 0.0250             | 1      | 11/29/23     | 11/30/23 |                |  |
| Ethylbenzene                                   | ND          | 0.0250             | 1      | 11/29/23     | 11/30/23 |                |  |
| Toluene                                        | ND          | 0.0250             | 1      | 11/29/23     | 11/30/23 |                |  |
| o-Xylene                                       | ND          | 0.0250             | 1      | 11/29/23     | 11/30/23 |                |  |
| p,m-Xylene                                     | ND          | 0.0500             | 1      | 11/29/23     | 11/30/23 |                |  |
| Total Xylenes                                  | ND          | 0.0250             | 1      | 11/29/23     | 11/30/23 |                |  |
| Surrogate: Bromofluorobenzene                  |             | 117 %              | 70-130 | 11/29/23     | 11/30/23 |                |  |
| Surrogate: 1,2-Dichloroethane-d4               |             | 88.8 %             | 70-130 | 11/29/23     | 11/30/23 |                |  |
| Surrogate: Toluene-d8                          |             | 110 %              | 70-130 | 11/29/23     | 11/30/23 |                |  |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg       | mg/kg Analyst: RKS |        | nalyst: RKS  |          | Batch: 2348052 |  |
| Gasoline Range Organics (C6-C10)               | ND          | 20.0               | 1      | 11/29/23     | 11/30/23 |                |  |
| Surrogate: Bromofluorobenzene                  |             | 117 %              | 70-130 | 11/29/23     | 11/30/23 |                |  |
| Surrogate: 1,2-Dichloroethane-d4               |             | 88.8 %             | 70-130 | 11/29/23     | 11/30/23 |                |  |
| Surrogate: Toluene-d8                          |             | 110 %              | 70-130 | 11/29/23     | 11/30/23 |                |  |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg       | mg/kg              | A      | nalyst: KM   |          | Batch: 2348073 |  |
| Diesel Range Organics (C10-C28)                | ND          | 25.0               | 1      | 11/30/23     | 12/01/23 |                |  |
| Oil Range Organics (C28-C36)                   | ND          | 50.0               | 1      | 11/30/23     | 12/01/23 |                |  |
| Surrogate: n-Nonane                            |             | 90.3 %             | 50-200 | 11/30/23     | 12/01/23 |                |  |
| Anions by EPA 300.0/9056A                      | mg/kg       | mg/kg              | A      | analyst: BA  |          | Batch: 2349009 |  |
| Chloride                                       | ND          | 200                | 10     | 12/04/23     | 12/04/23 |                |  |
|                                                |             |                    |        |              |          |                |  |



## **QC Summary Data**

Matador Resources, LLC. Project Name: Charlie Sweeney Federal Tank Battery Seported:

5400 LBJ Freeway, Suite 1500 Project Number: 23052-0001

Dallas TX, 75240 Project Manager: Ashley Giovengo 12/5/2023 4:18:14PM

| Dallas TX, 75240                                         |                                         | Project Manage     | r: As          | shley Gioveng    | go        |               |              | 12/;          | 5/2023 4:18:14PN |  |  |
|----------------------------------------------------------|-----------------------------------------|--------------------|----------------|------------------|-----------|---------------|--------------|---------------|------------------|--|--|
|                                                          | Volatile Organic Compounds by EPA 8260B |                    |                |                  |           |               |              |               | Analyst: RKS     |  |  |
| Analyte                                                  | Result                                  | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec       | Rec<br>Limits | RPD          | RPD<br>Limit  |                  |  |  |
|                                                          | mg/kg                                   | mg/kg              | mg/kg          | mg/kg            | %         | %             | %            | %             | Notes            |  |  |
| Blank (2348052-BLK1)                                     |                                         |                    |                |                  |           |               | Prepared: 11 | 1/29/23 Analy | zed: 11/29/23    |  |  |
| Benzene                                                  | ND                                      | 0.0250             |                |                  |           |               |              |               |                  |  |  |
| Ethylbenzene                                             | ND                                      | 0.0250             |                |                  |           |               |              |               |                  |  |  |
| Toluene                                                  | ND                                      | 0.0250             |                |                  |           |               |              |               |                  |  |  |
| o-Xylene                                                 | ND                                      | 0.0250             |                |                  |           |               |              |               |                  |  |  |
| p,m-Xylene                                               | ND                                      | 0.0500             |                |                  |           |               |              |               |                  |  |  |
| Total Xylenes                                            | ND                                      | 0.0250             |                |                  |           |               |              |               |                  |  |  |
| Surrogate: Bromofluorobenzene                            | 0.585                                   |                    | 0.500          |                  | 117       | 70-130        |              |               |                  |  |  |
| Surrogate: 1,2-Dichloroethane-d4                         | 0.470                                   |                    | 0.500          |                  | 93.9      | 70-130        |              |               |                  |  |  |
| Surrogate: Toluene-d8                                    | 0.548                                   |                    | 0.500          |                  | 110       | 70-130        |              |               |                  |  |  |
| LCS (2348052-BS1)                                        |                                         |                    |                |                  |           |               | Prepared: 11 | 1/29/23 Analy | zed: 11/29/23    |  |  |
| Benzene                                                  | 2.74                                    | 0.0250             | 2.50           |                  | 110       | 70-130        |              |               |                  |  |  |
| Ethylbenzene                                             | 2.79                                    | 0.0250             | 2.50           |                  | 112       | 70-130        |              |               |                  |  |  |
| Toluene                                                  | 2.71                                    | 0.0250             | 2.50           |                  | 108       | 70-130        |              |               |                  |  |  |
| o-Xylene                                                 | 2.73                                    | 0.0250             | 2.50           |                  | 109       | 70-130        |              |               |                  |  |  |
| p,m-Xylene                                               | 5.50                                    | 0.0500             | 5.00           |                  | 110       | 70-130        |              |               |                  |  |  |
| Total Xylenes                                            | 8.23                                    | 0.0250             | 7.50           |                  | 110       | 70-130        |              |               |                  |  |  |
| Surrogate: Bromofluorobenzene                            | 0.608                                   | 0.0250             | 0.500          |                  | 122       | 70-130        |              |               |                  |  |  |
| Surrogate: 1,2-Dichloroethane-d4                         | 0.482                                   |                    | 0.500          |                  | 96.4      | 70-130        |              |               |                  |  |  |
| Surrogate: 1,2-131cmoroemane-u4<br>Surrogate: Toluene-d8 | 0.549                                   |                    | 0.500          |                  | 110       | 70-130        |              |               |                  |  |  |
| Matrix Spike (2348052-MS1)                               |                                         |                    |                | Source:          | E311220-2 | 22            | Prepared: 11 | 1/29/23 Analy | zed: 11/30/23    |  |  |
| Benzene                                                  | 2.73                                    | 0.0250             | 2.50           | ND               | 109       | 48-131        | 1            |               |                  |  |  |
| Ethylbenzene                                             | 2.84                                    | 0.0250             | 2.50           | ND               | 114       | 45-135        |              |               |                  |  |  |
| Toluene                                                  | 2.75                                    | 0.0250             | 2.50           | ND               | 110       | 48-130        |              |               |                  |  |  |
| o-Xylene                                                 | 2.74                                    | 0.0250             | 2.50           | ND               | 110       | 43-135        |              |               |                  |  |  |
| p,m-Xylene                                               | 5.52                                    | 0.0500             | 5.00           | ND               | 110       | 43-135        |              |               |                  |  |  |
| Total Xylenes                                            | 8.26                                    | 0.0250             | 7.50           | ND               | 110       | 43-135        |              |               |                  |  |  |
| Surrogate: Bromofluorobenzene                            | 0.589                                   | 0.0230             | 0.500          |                  | 118       | 70-130        |              |               |                  |  |  |
| Surrogate: 1,2-Dichloroethane-d4                         | 0.470                                   |                    | 0.500          |                  | 94.0      | 70-130        |              |               |                  |  |  |
| Surrogate: Toluene-d8                                    | 0.552                                   |                    | 0.500          |                  | 110       | 70-130        |              |               |                  |  |  |
| Matrix Spike Dup (2348052-MSD1)                          |                                         |                    |                | Source:          | E311220-2 | 22            | Prepared: 11 | 1/29/23 Analy | zed: 11/30/23    |  |  |
| Benzene                                                  | 2.64                                    | 0.0250             | 2.50           | ND               | 106       | 48-131        | 3.37         | 23            |                  |  |  |
| Ethylbenzene                                             | 2.75                                    | 0.0250             | 2.50           | ND               | 110       | 45-135        | 3.25         | 27            |                  |  |  |
| Toluene                                                  | 2.64                                    | 0.0250             | 2.50           | ND               | 105       | 48-130        | 4.20         | 24            |                  |  |  |
| o-Xylene                                                 | 2.71                                    | 0.0250             | 2.50           | ND               | 108       | 43-135        | 1.14         | 27            |                  |  |  |
| p,m-Xylene                                               | 5.43                                    | 0.0500             | 5.00           | ND               | 109       | 43-135        | 1.65         | 27            |                  |  |  |
| Total Xylenes                                            | 8.14                                    | 0.0250             | 7.50           | ND               | 108       | 43-135        | 1.48         | 27            |                  |  |  |
| Surrogate: Bromofluorobenzene                            | 0.598                                   |                    | 0.500          |                  | 120       | 70-130        |              |               |                  |  |  |
| Surrogate: 1,2-Dichloroethane-d4                         | 0.498                                   |                    | 0.500          |                  | 99.5      | 70-130        |              |               |                  |  |  |
|                                                          |                                         |                    | 0.500          |                  | 100       | <b>50 130</b> |              |               |                  |  |  |



0.500

109

70-130

0.547

Surrogate: Toluene-d8

Gasoline Range Organics (C6-C10)

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

## **QC Summary Data**

Matador Resources, LLC.Project Name:Charlie Sweeney Federal Tank BatteryReported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo12/5/2023 4:18:14PM

| Dallas TX, 75240                 |        | Project Manage     | r: As          | shley Gioveng    | go       |               |             | 12/:          | 5/2023 4:18:14PM |
|----------------------------------|--------|--------------------|----------------|------------------|----------|---------------|-------------|---------------|------------------|
|                                  | Non    | halogenated        | Organics l     | by EPA 80        | 15D - G  | RO            |             | A             | nalyst: RKS      |
| Analyte                          | Result | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec      | Rec<br>Limits | RPD         | RPD<br>Limit  |                  |
|                                  | mg/kg  | mg/kg              | mg/kg          | mg/kg            | %        | %             | %           | %             | Notes            |
| Blank (2348052-BLK1)             |        |                    |                |                  |          |               | Prepared: 1 | 1/29/23 Analy | zed: 11/29/23    |
| Gasoline Range Organics (C6-C10) | ND     | 20.0               |                |                  |          |               |             |               |                  |
| Surrogate: Bromofluorobenzene    | 0.585  |                    | 0.500          |                  | 117      | 70-130        |             |               |                  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.470  |                    | 0.500          |                  | 93.9     | 70-130        |             |               |                  |
| Surrogate: Toluene-d8            | 0.548  |                    | 0.500          |                  | 110      | 70-130        |             |               |                  |
| LCS (2348052-BS2)                |        |                    |                |                  |          |               | Prepared: 1 | 1/29/23 Analy | zed: 11/29/23    |
| Gasoline Range Organics (C6-C10) | 55.8   | 20.0               | 50.0           |                  | 112      | 70-130        |             |               |                  |
| Surrogate: Bromofluorobenzene    | 0.604  |                    | 0.500          |                  | 121      | 70-130        |             |               |                  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.462  |                    | 0.500          |                  | 92.4     | 70-130        |             |               |                  |
| Surrogate: Toluene-d8            | 0.551  |                    | 0.500          |                  | 110      | 70-130        |             |               |                  |
| Matrix Spike (2348052-MS2)       |        |                    |                | Source:          | E311220- | 22            | Prepared: 1 | 1/29/23 Analy | vzed: 11/30/23   |
| Gasoline Range Organics (C6-C10) | 58.8   | 20.0               | 50.0           | ND               | 118      | 70-130        |             |               |                  |
| Surrogate: Bromofluorobenzene    | 0.594  |                    | 0.500          |                  | 119      | 70-130        |             |               |                  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.483  |                    | 0.500          |                  | 96.5     | 70-130        |             |               |                  |
| Surrogate: Toluene-d8            | 0.558  |                    | 0.500          |                  | 112      | 70-130        |             |               |                  |
| Matrix Spike Dup (2348052-MSD2)  |        |                    |                | Source:          | E311220- | 22            | Prepared: 1 | 1/29/23 Analy | zed: 11/30/23    |

50.0

0.500

0.500

0.500

20.0

116

121

94.5

110

70-130

70-130

70-130

70-130

0.968

58.2

0.603

0.473

0.551

# **QC Summary Data**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Federal Tank Battery | Reported:           |
|------------------------------|------------------|--------------------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001                           |                     |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo                      | 12/5/2023 4:18:14PM |

| Dallas 1X, /5240                |        | Project Manage     | r: As          | niey Gioveng     | 30        |               |             |              | 12/5/2025 4:18:14PN |
|---------------------------------|--------|--------------------|----------------|------------------|-----------|---------------|-------------|--------------|---------------------|
|                                 | Nonha  | logenated Or       | ganics by      | EPA 8015I        | ) - DRO   | ORO           |             |              | Analyst: KM         |
| Analyte                         | Result | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec       | Rec<br>Limits | RPD         | RPD<br>Limit |                     |
|                                 | mg/kg  | mg/kg              | mg/kg          | mg/kg            | %         | %             | %           | %            | Notes               |
| Blank (2348073-BLK1)            |        |                    |                |                  |           |               | Prepared: 1 | 1/30/23 A    | Analyzed: 11/30/23  |
| Diesel Range Organics (C10-C28) | ND     | 25.0               |                |                  |           |               |             |              |                     |
| Dil Range Organics (C28-C36)    | ND     | 50.0               |                |                  |           |               |             |              |                     |
| urrogate: n-Nonane              | 49.7   |                    | 50.0           |                  | 99.4      | 50-200        |             |              |                     |
| LCS (2348073-BS1)               |        |                    |                |                  |           |               | Prepared: 1 | 1/30/23 A    | Analyzed: 11/30/23  |
| Diesel Range Organics (C10-C28) | 257    | 25.0               | 250            |                  | 103       | 38-132        |             |              |                     |
| urrogate: n-Nonane              | 50.0   |                    | 50.0           |                  | 100       | 50-200        |             |              |                     |
| Matrix Spike (2348073-MS1)      |        |                    |                | Source:          | E311200-0 | )4            | Prepared: 1 | 1/30/23 A    | Analyzed: 11/30/23  |
| Diesel Range Organics (C10-C28) | 266    | 25.0               | 250            | ND               | 106       | 38-132        |             |              |                     |
| urrogate: n-Nonane              | 49.0   |                    | 50.0           |                  | 98.1      | 50-200        |             |              |                     |
| Matrix Spike Dup (2348073-MSD1) |        |                    |                | Source:          | E311200-0 | )4            | Prepared: 1 | 1/30/23 A    | Analyzed: 11/30/23  |
| Diesel Range Organics (C10-C28) | 256    | 25.0               | 250            | ND               | 102       | 38-132        | 3.97        | 20           |                     |
| urrogate: n-Nonane              | 48.5   |                    | 50.0           |                  | 97.0      |               |             |              |                     |

## **QC Summary Data**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Federal Tank Battery | Reported:           |
|------------------------------|------------------|--------------------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001                           | _                   |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo                      | 12/5/2023 4:18:14PM |

|                                 |        | Anions by EPA 300.0/9056A |                |                  |          |               |             |              | Analyst: BA      |  |  |  |
|---------------------------------|--------|---------------------------|----------------|------------------|----------|---------------|-------------|--------------|------------------|--|--|--|
| Analyte                         | Result | Reporting<br>Limit        | Spike<br>Level | Source<br>Result | Rec      | Rec<br>Limits |             | RPD<br>Limit |                  |  |  |  |
|                                 | mg/kg  | mg/kg                     | mg/kg          | mg/kg            | %        | %             | %           | %            | Notes            |  |  |  |
| Blank (2349009-BLK1)            |        |                           |                |                  |          |               | Prepared: 1 | 2/04/23 Ana  | alyzed: 12/04/23 |  |  |  |
| Chloride                        | ND     | 20.0                      |                |                  |          |               |             |              |                  |  |  |  |
| LCS (2349009-BS1)               |        |                           |                |                  |          |               | Prepared: 1 | 2/04/23 Ana  | alyzed: 12/04/23 |  |  |  |
| Chloride                        | 250    | 20.0                      | 250            |                  | 99.9     | 90-110        |             |              |                  |  |  |  |
| Matrix Spike (2349009-MS1)      |        |                           |                | Source:          | E311218- | 02            | Prepared: 1 | 2/04/23 Ana  | alyzed: 12/04/23 |  |  |  |
| Chloride                        | 715    | 200                       | 250            | 445              | 108      | 80-120        |             |              |                  |  |  |  |
| Matrix Spike Dup (2349009-MSD1) |        |                           |                | Source:          | E311218- | 02            | Prepared: 1 | 2/04/23 Ana  | alyzed: 12/04/23 |  |  |  |
| Chloride                        | 656    | 200                       | 250            | 445              | 84.6     | 80-120        | 8.56        | 20           |                  |  |  |  |

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



## **Definitions and Notes**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Federal Tank Battery |                |
|------------------------------|------------------|--------------------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001                           | Reported:      |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo                      | 12/05/23 16:18 |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

| Page    | of 1 |
|---------|------|
| 1 age _ |      |

| Client: 1                              | Matador Pro                         | duction C | Company.             |                      | Bill To                                                   |                  | Jan 2 -            | La                   | ab U        | se On       | У                    |           |          | Т       | AT                                                 | EPA P         | rogram  |
|----------------------------------------|-------------------------------------|-----------|----------------------|----------------------|-----------------------------------------------------------|------------------|--------------------|----------------------|-------------|-------------|----------------------|-----------|----------|---------|----------------------------------------------------|---------------|---------|
| Project:                               | Charlie Swe                         | ency Fol  | teral Ta             | K Bottery            | Attention: Matador Produc                                 | tion Company     | Lab WC             | )#                   | ~           |             | lumber               |           | ) 20     | D 3D    | Standard                                           | CWA           | SDWA    |
| Project I                              | Manager: As                         | hley Gio  | vengo                |                      | Address: on file                                          |                  | E31                | 121                  | X           | 23          | 352-00               | $7\alpha$ |          |         | ×                                                  |               |         |
| Address                                | : 3122 Natio                        | nal Parks | Hwy                  |                      | City, State, Zip:                                         |                  |                    |                      |             |             | sis and Met          |           |          |         |                                                    |               | RCRA    |
| City, Sta                              | te, Zip: Carls                      | bad NM,   | 88220                |                      | Phone: (337)319-8398                                      |                  | by                 |                      |             |             |                      |           |          |         |                                                    |               |         |
| Phone:                                 | 575-988-005                         | 5         |                      |                      | Email: clinton.talley@matac                               | dorresources.com | SRO<br>BRO         |                      |             |             |                      |           |          |         |                                                    | State         |         |
| Email: a                               | giovengo@e                          | nsolum.   | com                  |                      |                                                           |                  | 0/0                | 1                    |             |             | 0                    | 1 2       |          |         | NM CO                                              | UT AZ         | TX      |
| Report o                               | lue by:                             |           |                      |                      |                                                           |                  | 0/DR               | 802                  | 8260        | 5010        | 300                  | - 1       |          | ×       | X                                                  |               |         |
| Time<br>Sampled                        | Date Sampled                        | Matrix    | No. of<br>Containers | Sample ID            |                                                           | Lab<br>Number    | TPH GRO/DRO/ORO by | 8015<br>BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0       | 0         | DODO     | GDOC    |                                                    | Remarks       |         |
| 1036                                   | 11/27/25                            | 5         | 1                    |                      | 5501 -0                                                   | 1                |                    |                      |             |             |                      | У         | 1        |         |                                                    |               |         |
| 6949                                   | 11/27/25                            | 5         | 1                    |                      | SS02-0"                                                   | 2                |                    |                      |             |             |                      | ×         |          |         |                                                    |               |         |
| 1207                                   | 11/27/23                            | 5         |                      |                      | S503-0                                                    | 3                |                    |                      |             |             |                      | )         | (        |         |                                                    |               |         |
| 1224                                   | 11/27/25                            | 5         | 1                    |                      | 5504-01                                                   | 4                |                    |                      |             |             |                      |           | (        |         |                                                    |               |         |
| 0959                                   | 11/27/23                            | 5         | Ţ                    |                      | 5505-01                                                   | 5                |                    |                      |             |             |                      |           | K        |         |                                                    |               |         |
|                                        |                                     |           |                      |                      |                                                           |                  |                    |                      |             |             |                      |           | +        |         |                                                    |               |         |
|                                        |                                     |           |                      |                      |                                                           |                  |                    | -                    |             |             |                      |           |          |         |                                                    |               |         |
|                                        |                                     |           |                      |                      |                                                           |                  |                    |                      |             |             |                      | +         | +        |         |                                                    |               |         |
| Addition                               | al Instructio                       | ns: Ple   | ase CC: cl           | ourton@enso          | lum.com, agiovengo@ensolum.co                             | om, chadhmilton  | @ensol             | um.co                | m, e        | haft@       | Pensolum             | com       |          |         |                                                    |               |         |
|                                        |                                     |           |                      | y of this sample. It | am aware that tampering with or intentionally gal action. |                  | location,          |                      | Ī           |             |                      |           |          |         | received on ice the da<br>at less than 6 °C on sul |               | pled or |
| Relinguish<br>Relinguish               | ed by: (Signatu                     | re)       | Date Date            | 7 Time 28/25         | Received by: (Signature)  Received by: (Signature)        | usde 11-25. Date | Tim                | 145                  |             | Rece        | ived on ice          | e: (      | Lab<br>Y | Use O   | nly                                                |               |         |
| Relinquish                             | ed by: (Signatu                     |           | Date                 | Time                 | heceived by: (Signature)                                  | 11.28            | 23 /               | 730                  | 4           | <u>T1</u>   |                      | U         | 2        |         | <u>T3</u>                                          |               |         |
| Andres                                 | J Mus                               | 30        | 1/-                  | 28.23 2              | S45 Ulluk                                                 | 011.01           | 4)                 | 00(                  |             |             | Temp °C_             | - 1       |          |         |                                                    |               |         |
| ************************************** | rix: <b>S</b> - Soil, <b>Sd</b> - S |           | dge, A - Aqu         | eous, O - Other      |                                                           |                  |                    |                      |             |             | astic, <b>ag</b> - a |           |          |         |                                                    |               |         |
|                                        |                                     |           |                      |                      | nless other arrangements are made. Har                    |                  |                    |                      |             |             |                      | client    | exper    | nse. Th | ne report for the                                  | analysis of t | he abov |



edisposed of at the client expense. The report for the analysis of the above in the report.

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envirotech Inc.

Printed: 11/29/2023 1:21:49PM

## **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

| Client:    | Matador Resources, LLC.                                                                                                                                                                        | Date Received:  | 11/29/23 | 08:30             |                 | Work Order ID: | E311218        |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|-------------------|-----------------|----------------|----------------|
| Phone:     | (972) 371-5200                                                                                                                                                                                 | Date Logged In: | 11/28/23 | 16:07             |                 | Logged In By:  | Alexa Michaels |
| Email:     | agiovngo@ensolum.com                                                                                                                                                                           | Due Date:       | 12/06/23 | 17:00 (5 day TAT) |                 |                |                |
| Chain of   | Custody (COC)                                                                                                                                                                                  |                 |          |                   |                 |                |                |
|            | ne sample ID match the COC?                                                                                                                                                                    |                 | Yes      |                   |                 |                |                |
|            | ne number of samples per sampling site location mate                                                                                                                                           | ch the COC      | Yes      |                   |                 |                |                |
|            | amples dropped off by client or carrier?                                                                                                                                                       |                 | Yes      | Carrier: <u>C</u> | Courier         |                |                |
|            | e COC complete, i.e., signatures, dates/times, request                                                                                                                                         | ted analyses?   | Yes      | Carrier. c        | <u> Journer</u> |                |                |
|            | Il samples received within holding time?                                                                                                                                                       | iou unury sos.  | Yes      |                   |                 |                |                |
|            | Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio                                                                           | •               |          |                   | <b>-</b>        | Comment        | s/Resolution   |
| Sample T   | <u> [urn Around Time (TAT)</u>                                                                                                                                                                 |                 |          |                   |                 |                |                |
| 6. Did the | e COC indicate standard TAT, or Expedited TAT?                                                                                                                                                 |                 | Yes      |                   |                 |                |                |
| Sample C   |                                                                                                                                                                                                |                 |          |                   |                 |                |                |
|            | sample cooler received?                                                                                                                                                                        |                 | Yes      |                   |                 |                |                |
| •          | was cooler received in good condition?                                                                                                                                                         |                 | Yes      |                   |                 |                |                |
|            | e sample(s) received intact, i.e., not broken?                                                                                                                                                 |                 | Yes      |                   |                 |                |                |
| 10. Were   | custody/security seals present?                                                                                                                                                                |                 | No       |                   |                 |                |                |
| 11. If yes | , were custody/security seals intact?                                                                                                                                                          |                 | NA       |                   |                 |                |                |
|            | e sample received on ice? If yes, the recorded temp is 4°C,  Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample | received w/i 15 | Yes      |                   |                 |                |                |
|            |                                                                                                                                                                                                | temperature. 1  | <u> </u> |                   |                 |                |                |
| Sample C   | queous VOC samples present?                                                                                                                                                                    |                 | No       |                   |                 |                |                |
|            | OC samples collected in VOA Vials?                                                                                                                                                             |                 | NA       |                   |                 |                |                |
|            | head space less than 6-8 mm (pea sized or less)?                                                                                                                                               |                 | NA       |                   |                 |                |                |
|            | trip blank (TB) included for VOC analyses?                                                                                                                                                     |                 | NA       |                   |                 |                |                |
|            | on-VOC samples collected in the correct containers?                                                                                                                                            |                 | Yes      |                   |                 |                |                |
|            | appropriate volume/weight or number of sample contain                                                                                                                                          |                 | Yes      |                   |                 |                |                |
| Field Lal  |                                                                                                                                                                                                | ers conceicu:   | 103      |                   |                 |                |                |
|            | field sample labels filled out with the minimum infor                                                                                                                                          | rmation:        |          |                   |                 |                |                |
|            | ample ID?                                                                                                                                                                                      | ination.        | Yes      |                   |                 |                |                |
|            | Pate/Time Collected?                                                                                                                                                                           |                 | Yes      |                   |                 |                |                |
| C          | ollectors name?                                                                                                                                                                                |                 | Yes      |                   |                 |                |                |
| Sample P   | Preservation_                                                                                                                                                                                  |                 |          |                   |                 |                |                |
| 21. Does   | the COC or field labels indicate the samples were pro-                                                                                                                                         | eserved?        | No       |                   |                 |                |                |
|            | ample(s) correctly preserved?                                                                                                                                                                  |                 | NA       |                   |                 |                |                |
| 24. Is lab | filteration required and/or requested for dissolved m                                                                                                                                          | etals?          | No       |                   |                 |                |                |
| Multipha   | se Sample Matrix                                                                                                                                                                               |                 |          |                   |                 |                |                |
| 26. Does   | the sample have more than one phase, i.e., multiphas                                                                                                                                           | e?              | No       |                   |                 |                |                |
| 27. If yes | , does the COC specify which phase(s) is to be analy                                                                                                                                           | zed?            | NA       |                   |                 |                |                |
| Subcontr   | act Laboratory                                                                                                                                                                                 |                 |          |                   |                 |                |                |
|            | amples required to get sent to a subcontract laborator                                                                                                                                         | v?              | No       |                   |                 |                |                |
|            | subcontract laboratory specified by the client and if                                                                                                                                          | -               | NA       | Subcontract Lab   | o: NA           |                |                |
|            | nstruction                                                                                                                                                                                     |                 |          |                   |                 |                |                |
| CHEIL      | isti uction                                                                                                                                                                                    |                 |          |                   |                 |                |                |
|            |                                                                                                                                                                                                |                 |          |                   |                 |                |                |
|            |                                                                                                                                                                                                |                 |          |                   |                 |                |                |
|            |                                                                                                                                                                                                |                 |          |                   |                 |                |                |
|            |                                                                                                                                                                                                |                 |          |                   |                 |                |                |
|            |                                                                                                                                                                                                |                 |          |                   |                 |                |                |
|            |                                                                                                                                                                                                |                 |          |                   |                 |                |                |
|            |                                                                                                                                                                                                |                 |          |                   |                 |                |                |
|            |                                                                                                                                                                                                |                 |          |                   |                 |                |                |

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Charlie Sweeney Federal Tank

Battery

Work Order: E312054

Job Number: 23052-0001

Received: 12/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 12/15/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/15/23

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Charlie Sweeney Federal Tank Battery

Workorder: E312054

Date Received: 12/8/2023 1:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/8/2023 1:00:00PM, under the Project Name: Charlie Sweeney Federal Tank Battery.

The analytical test results summarized in this report with the Project Name: Charlie Sweeney Federal Tank Battery apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## Sample Summary

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Federal Tank Battery | Reported:      |
|------------------------------|------------------|--------------------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001                           | Reporteu:      |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo                      | 12/15/23 16:27 |

| Client Sample ID | Lab Sample ID Matrix | Sampled  | Received | Container        |
|------------------|----------------------|----------|----------|------------------|
| PH01-0'          | E312054-01A Soil     | 12/06/23 | 12/08/23 | Glass Jar, 2 oz. |
| PH01-1'          | E312054-02A Soil     | 12/06/23 | 12/08/23 | Glass Jar, 2 oz. |
| PH01-2'          | E312054-03A Soil     | 12/06/23 | 12/08/23 | Glass Jar, 2 oz. |
| PH02-0'          | E312054-04A Soil     | 12/06/23 | 12/08/23 | Glass Jar, 2 oz. |
| PH02-1'          | E312054-05A Soil     | 12/06/23 | 12/08/23 | Glass Jar, 2 oz. |
| PH02-2'          | E312054-06A Soil     | 12/06/23 | 12/08/23 | Glass Jar, 2 oz. |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Federal Tank Battery |                      |
|------------------------------|------------------|--------------------------------------|----------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001                           | Reported:            |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo                      | 12/15/2023 4:27:35PM |

## PH01-0' E312054-01

|                                                |        | L512054 01         |          |              |          |                |
|------------------------------------------------|--------|--------------------|----------|--------------|----------|----------------|
| Analyte                                        | Result | Reporting<br>Limit | Dilution | Prepared     | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg              | Analy    | st: RAS      |          | Batch: 2350004 |
| Benzene                                        | ND     | 0.0250             | 1        | 12/11/23     | 12/14/23 |                |
| Ethylbenzene                                   | ND     | 0.0250             | 1        | 12/11/23     | 12/14/23 |                |
| Toluene                                        | ND     | 0.0250             | 1        | 12/11/23     | 12/14/23 |                |
| o-Xylene                                       | ND     | 0.0250             | 1        | 12/11/23     | 12/14/23 |                |
| p,m-Xylene                                     | ND     | 0.0500             | 1        | 12/11/23     | 12/14/23 |                |
| Total Xylenes                                  | ND     | 0.0250             | 1        | 12/11/23     | 12/14/23 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 93.5 %             | 70-130   | 12/11/23     | 12/14/23 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg              | Analy    | Analyst: RAS |          | Batch: 2350004 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0               | 1        | 12/11/23     | 12/14/23 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 88.2 %             | 70-130   | 12/11/23     | 12/14/23 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg              | Analy    | st: KM       |          | Batch: 2350045 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0               | 1        | 12/13/23     | 12/15/23 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0               | 1        | 12/13/23     | 12/15/23 |                |
| Surrogate: n-Nonane                            |        | 75.7 %             | 50-200   | 12/13/23     | 12/15/23 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg              | Analy    | st: BA       |          | Batch: 2350035 |
| Chloride                                       | 6670   | 200                | 10       | 12/12/23     | 12/15/23 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Federal Tank Battery |                      |
|------------------------------|------------------|--------------------------------------|----------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001                           | Reported:            |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo                      | 12/15/2023 4:27:35PM |

### PH01-1'

### E312054-02

|                                                |        | Reporting |                |          |                |                |
|------------------------------------------------|--------|-----------|----------------|----------|----------------|----------------|
| Analyte                                        | Result | Limit     | Dilution       | Prepared | Analyzed       | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg     | Analys         | t: RAS   |                | Batch: 2350004 |
| Benzene                                        | ND     | 0.0250    | 1              | 12/11/23 | 12/14/23       |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1              | 12/11/23 | 12/14/23       |                |
| Toluene                                        | ND     | 0.0250    | 1              | 12/11/23 | 12/14/23       |                |
| o-Xylene                                       | ND     | 0.0250    | 1              | 12/11/23 | 12/14/23       |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1              | 12/11/23 | 12/14/23       |                |
| Total Xylenes                                  | ND     | 0.0250    | 1              | 12/11/23 | 12/14/23       |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 92.8 %    | 70-130         | 12/11/23 | 12/14/23       |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | g Analyst: RAS |          |                | Batch: 2350004 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1              | 12/11/23 | 12/14/23       |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 89.4 %    | 70-130         | 12/11/23 | 12/14/23       |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | Analys         | t: KM    |                | Batch: 2350045 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1              | 12/13/23 | 12/15/23       |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1              | 12/13/23 | 12/15/23       |                |
| Surrogate: n-Nonane                            |        | 72.9 %    | 50-200         | 12/13/23 | 12/15/23       |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | Analyst: BA    |          | Batch: 2350035 |                |
|                                                |        |           |                |          |                |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Federal Tank Battery |                      |
|------------------------------|------------------|--------------------------------------|----------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001                           | Reported:            |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo                      | 12/15/2023 4:27:35PM |

### PH01-2'

#### E312054-03

|                                                |        | Reporting |              |          |                |                |
|------------------------------------------------|--------|-----------|--------------|----------|----------------|----------------|
| Analyte                                        | Result | Limit     | Dilution     | Prepared | Analyzed       | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg     | Analy        | st: RAS  |                | Batch: 2350004 |
| Benzene                                        | ND     | 0.0250    | 1            | 12/11/23 | 12/14/23       |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1            | 12/11/23 | 12/14/23       |                |
| Toluene                                        | ND     | 0.0250    | 1            | 12/11/23 | 12/14/23       |                |
| o-Xylene                                       | ND     | 0.0250    | 1            | 12/11/23 | 12/14/23       |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1            | 12/11/23 | 12/14/23       |                |
| Total Xylenes                                  | ND     | 0.0250    | 1            | 12/11/23 | 12/14/23       |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 92.6 %    | 70-130       | 12/11/23 | 12/14/23       |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | Analyst: RAS |          | Batch: 2350004 |                |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1            | 12/11/23 | 12/14/23       |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 88.0 %    | 70-130       | 12/11/23 | 12/14/23       |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | Analy        | st: KM   |                | Batch: 2350045 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1            | 12/13/23 | 12/15/23       |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1            | 12/13/23 | 12/15/23       |                |
| Surrogate: n-Nonane                            |        | 79.3 %    | 50-200       | 12/13/23 | 12/15/23       |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | Analyst: BA  |          |                | Batch: 2350035 |
|                                                | ND     | 200       | 10           | 12/12/23 | 12/14/23       |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Federal Tank Battery |                      |
|------------------------------|------------------|--------------------------------------|----------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001                           | Reported:            |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo                      | 12/15/2023 4:27:35PM |

## PH02-0' E312054-04

|                                                |        | 201200.0.          |          |              |          |                |
|------------------------------------------------|--------|--------------------|----------|--------------|----------|----------------|
| Analyte                                        | Result | Reporting<br>Limit | Dilution | Prepared     | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg              | Analy    | st: RAS      | ·        | Batch: 2350004 |
| Benzene                                        | ND     | 0.0250             | 1        | 12/11/23     | 12/14/23 |                |
| Ethylbenzene                                   | ND     | 0.0250             | 1        | 12/11/23     | 12/14/23 |                |
| Toluene                                        | ND     | 0.0250             | 1        | 12/11/23     | 12/14/23 |                |
| o-Xylene                                       | ND     | 0.0250             | 1        | 12/11/23     | 12/14/23 |                |
| o,m-Xylene                                     | ND     | 0.0500             | 1        | 12/11/23     | 12/14/23 |                |
| Total Xylenes                                  | ND     | 0.0250             | 1        | 12/11/23     | 12/14/23 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 92.3 %             | 70-130   | 12/11/23     | 12/14/23 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg              | Analy    | Analyst: RAS |          | Batch: 2350004 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0               | 1        | 12/11/23     | 12/14/23 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 88.2 %             | 70-130   | 12/11/23     | 12/14/23 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg              | Analy    | st: KM       |          | Batch: 2350045 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0               | 1        | 12/13/23     | 12/15/23 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0               | 11       | 12/13/23     | 12/15/23 |                |
| Surrogate: n-Nonane                            |        | 74.7 %             | 50-200   | 12/13/23     | 12/15/23 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg              | Analy    | st: BA       |          | Batch: 2350035 |
| Chloride                                       | 4320   | 200                | 10       | 12/12/23     | 12/15/23 |                |
|                                                |        |                    |          |              |          |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Federal Tank Battery |                      |
|------------------------------|------------------|--------------------------------------|----------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001                           | Reported:            |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo                      | 12/15/2023 4:27:35PM |

#### PH02-1'

#### E312054-05

|                                                |        | Reporting |          |          |          |                |
|------------------------------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                                        | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg     | Analy    | st: RAS  |          | Batch: 2350004 |
| Benzene                                        | ND     | 0.0250    | 1        | 12/11/23 | 12/14/23 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1        | 12/11/23 | 12/14/23 |                |
| Toluene                                        | ND     | 0.0250    | 1        | 12/11/23 | 12/14/23 |                |
| o-Xylene                                       | ND     | 0.0250    | 1        | 12/11/23 | 12/14/23 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1        | 12/11/23 | 12/14/23 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1        | 12/11/23 | 12/14/23 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 91.9 %    | 70-130   | 12/11/23 | 12/14/23 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | Analy    | st: RAS  |          | Batch: 2350004 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1        | 12/11/23 | 12/14/23 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 87.9 %    | 70-130   | 12/11/23 | 12/14/23 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | Analy    | st: KM   |          | Batch: 2350045 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1        | 12/13/23 | 12/15/23 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1        | 12/13/23 | 12/15/23 |                |
| Surrogate: n-Nonane                            |        | 75.1 %    | 50-200   | 12/13/23 | 12/15/23 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | Analy    | st: BA   |          | Batch: 2350035 |
| Chloride                                       | 333    | 200       | 10       | 12/12/23 | 12/15/23 | ·              |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Federal Tank Battery |                      |
|------------------------------|------------------|--------------------------------------|----------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001                           | Reported:            |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo                      | 12/15/2023 4:27:35PM |

#### PH02-2'

#### E312054-06

|                                                |        | Reporting |          |          |          |                |
|------------------------------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                                        | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg     | Analys   | t: RAS   |          | Batch: 2350004 |
| Benzene                                        | ND     | 0.0250    | 1        | 12/11/23 | 12/15/23 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1        | 12/11/23 | 12/15/23 |                |
| Toluene                                        | ND     | 0.0250    | 1        | 12/11/23 | 12/15/23 |                |
| o-Xylene                                       | ND     | 0.0250    | 1        | 12/11/23 | 12/15/23 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1        | 12/11/23 | 12/15/23 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1        | 12/11/23 | 12/15/23 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 91.8 %    | 70-130   | 12/11/23 | 12/15/23 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | Analys   | t: RAS   |          | Batch: 2350004 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1        | 12/11/23 | 12/15/23 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 88.3 %    | 70-130   | 12/11/23 | 12/15/23 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | Analys   | t: KM    |          | Batch: 2350045 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1        | 12/13/23 | 12/15/23 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1        | 12/13/23 | 12/15/23 |                |
| Surrogate: n-Nonane                            |        | 70.3 %    | 50-200   | 12/13/23 | 12/15/23 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | Analys   | t: BA    |          | Batch: 2350035 |
| · · · · · · · · · · · · · · · · · · ·          | 378    | 200       | 10       | 12/12/23 | 12/15/23 | ·              |



Charlie Sweeney Federal Tank Battery Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23052-0001 Dallas TX, 75240 Project Manager: Ashley Giovengo 12/15/2023 4:27:35PM **Volatile Organics by EPA 8021B** Analyst: RAS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2350004-BLK1) Prepared: 12/11/23 Analyzed: 12/14/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.62 8.00 95.2 70-130 LCS (2350004-BS1) Prepared: 12/11/23 Analyzed: 12/14/23 4.84 96.8 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.66 0.0250 5.00 93.3 70-130 4.84 0.0250 5.00 96.9 70-130 Toluene o-Xylene 4.78 0.0250 5.00 95.6 70-130 10.0 96.5 70-130 9.65 0.0500 p.m-Xvlene 96.2 70-130 14.4 15.0 Total Xylenes 0.0250 8.00 95.2 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.62 Matrix Spike (2350004-MS1) Source: E312053-02 Prepared: 12/11/23 Analyzed: 12/14/23 4.85 0.0250 5.00 ND 54-133 Benzene ND 61-133 Ethylbenzene 4.68 0.0250 5.00 93.6 Toluene 4.86 0.0250 5.00 ND 97.1 61-130 4.79 ND 95.8 63-131 5.00 0.0250 o-Xylene p,m-Xylene 9.68 0.0500 10.0 ND 96.8 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.63 8.00 Matrix Spike Dup (2350004-MSD1) Source: E312053-02 Prepared: 12/11/23 Analyzed: 12/14/23 4.74 0.0250 5.00 ND 94.7 54-133 2.29 4.57 61-133 2.41 0.0250 5.00 ND 91.4 20 Ethylbenzene 61-130 Toluene 4 74 0.0250 5.00 ND 949 2 32 20 4.67 5.00 ND 93.4 63-131 2.55 20 o-Xylene 0.0250

10.0

15.0

8.00

0.0500

0.0250

ND

ND

94.4

94.1

95.1

63-131

63-131

70-130



2.47

2.50

20

20

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

9.44

14.1

7.61

| Matador Resources, LLC.<br>5400 LBJ Freeway, Suite 1500 | Project Name: Project Number: | Charlie Sweeney Federal Tank Battery<br>23052-0001 | Reported:            |
|---------------------------------------------------------|-------------------------------|----------------------------------------------------|----------------------|
| Dallas TX, 75240                                        | Project Manager:              | Ashley Giovengo                                    | 12/15/2023 4:27:35PM |

| Dallas TX, 75240                                       |                 | Project Manage              | r: As                   | shley Gioveng             | go       |               |             | 1                 | 2/15/2023 4:27:35PM |
|--------------------------------------------------------|-----------------|-----------------------------|-------------------------|---------------------------|----------|---------------|-------------|-------------------|---------------------|
| Nonhalogenated Organics by EPA 8015D - GRO  Analyst: R |                 |                             |                         |                           |          |               |             |                   |                     |
| Analyte                                                | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits | RPD<br>%    | RPD<br>Limit<br>% | Notes               |
| Blank (2350004-BLK1)                                   |                 |                             |                         |                           |          |               | Prepared: 1 | 2/11/23 An        | alyzed: 12/14/23    |
| Gasoline Range Organics (C6-C10)                       | ND              | 20.0                        |                         |                           |          |               |             |                   |                     |
| Surrogate: 1-Chloro-4-fluorobenzene-FID                | 6.94            |                             | 8.00                    |                           | 86.7     | 70-130        |             |                   |                     |
| LCS (2350004-BS2)                                      |                 |                             |                         |                           |          |               | Prepared: 1 | 2/11/23 An        | alyzed: 12/14/23    |
| Gasoline Range Organics (C6-C10)                       | 44.5            | 20.0                        | 50.0                    |                           | 89.0     | 70-130        |             |                   |                     |
| Surrogate: 1-Chloro-4-fluorobenzene-FID                | 7.02            |                             | 8.00                    |                           | 87.8     | 70-130        |             |                   |                     |
| Matrix Spike (2350004-MS2)                             |                 |                             |                         | Source:                   | E312053- | 02            | Prepared: 1 | 2/11/23 An        | alyzed: 12/14/23    |
| Gasoline Range Organics (C6-C10)                       | 45.4            | 20.0                        | 50.0                    | ND                        | 90.9     | 70-130        |             |                   |                     |
| Surrogate: 1-Chloro-4-fluorobenzene-FID                | 7.09            |                             | 8.00                    |                           | 88.7     | 70-130        |             |                   |                     |
| Matrix Spike Dup (2350004-MSD2)                        |                 |                             |                         | Source:                   | E312053- | 02            | Prepared: 1 | 2/11/23 An        | alyzed: 12/14/23    |
| Gasoline Range Organics (C6-C10)                       | 44.3            | 20.0                        | 50.0                    | ND                        | 88.6     | 70-130        | 2.56        | 20                |                     |
| Surrogate: 1-Chloro-4-fluorobenzene-FID                | 7.12            |                             | 8.00                    |                           | 88.9     | 70-130        |             |                   |                     |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Federal Tank Battery | Reported:            |
|------------------------------|------------------|--------------------------------------|----------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001                           |                      |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo                      | 12/15/2023 4:27:35PM |

| Dallas 1X, /5240                |        | Project Manage     | r: As          | sniey Gioveng    | go       |               |             |              | 12/15/2023 4:27:35PI |
|---------------------------------|--------|--------------------|----------------|------------------|----------|---------------|-------------|--------------|----------------------|
|                                 | Nonha  | logenated Or       | ganics by l    | EPA 8015I        | ) - DRO  | ORO/          |             |              | Analyst: KM          |
| Analyte                         | Result | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec      | Rec<br>Limits | RPD         | RPD<br>Limit |                      |
|                                 | mg/kg  | mg/kg              | mg/kg          | mg/kg            | %        | %             | %           | %            | Notes                |
| Blank (2350045-BLK1)            |        |                    |                |                  |          |               | Prepared: 1 | 2/13/23 A    | Analyzed: 12/14/23   |
| Diesel Range Organics (C10-C28) | ND     | 25.0               |                |                  |          |               |             |              |                      |
| Dil Range Organics (C28-C36)    | ND     | 50.0               |                |                  |          |               |             |              |                      |
| Surrogate: n-Nonane             | 42.2   |                    | 50.0           |                  | 84.4     | 50-200        |             |              |                      |
| LCS (2350045-BS1)               |        |                    |                |                  |          |               | Prepared: 1 | 2/13/23 A    | Analyzed: 12/14/23   |
| Diesel Range Organics (C10-C28) | 219    | 25.0               | 250            |                  | 87.7     | 38-132        |             |              |                      |
| urrogate: n-Nonane              | 40.8   |                    | 50.0           |                  | 81.6     | 50-200        |             |              |                      |
| Matrix Spike (2350045-MS1)      |        |                    |                | Source:          | E312048- | 03            | Prepared: 1 | 2/13/23 A    | Analyzed: 12/14/23   |
| Diesel Range Organics (C10-C28) | 226    | 25.0               | 250            | ND               | 90.5     | 38-132        |             |              |                      |
| Surrogate: n-Nonane             | 40.2   |                    | 50.0           |                  | 80.3     | 50-200        |             |              |                      |
| Matrix Spike Dup (2350045-MSD1) |        |                    |                | Source:          | E312048- | 03            | Prepared: 1 | 2/13/23 A    | Analyzed: 12/14/23   |
| Diesel Range Organics (C10-C28) | 218    | 25.0               | 250            | ND               | 87.4     | 38-132        | 3.49        | 20           |                      |
| Surrogate: n-Nonane             | 42.6   |                    | 50.0           |                  | 85.1     | 50-200        |             |              |                      |



Chloride

### **QC Summary Data**

| Matador Resources, LLC.<br>5400 LBJ Freeway, Suite 1500 | Project Name: Project Number: | Charlie Sweeney Federal Tank Battery 23052-0001 | Reported:            |
|---------------------------------------------------------|-------------------------------|-------------------------------------------------|----------------------|
| Dallas TX, 75240                                        | Project Manager:              | Ashley Giovengo                                 | 12/15/2023 4:27:35PM |

| Anions by EPA 300.0/9056A       |        |                    |                |                  |          |               |             | Analyst: BA  |                |
|---------------------------------|--------|--------------------|----------------|------------------|----------|---------------|-------------|--------------|----------------|
| Analyte                         | Result | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec      | Rec<br>Limits | RPD         | RPD<br>Limit |                |
|                                 | mg/kg  | mg/kg              | mg/kg          | mg/kg            | %        | %             | %           | %            | Notes          |
| Blank (2350035-BLK1)            |        |                    |                |                  |          |               | Prepared: 1 | 2/12/23 Anal | yzed: 12/14/23 |
| Chloride                        | ND     | 20.0               |                |                  |          |               |             |              |                |
| LCS (2350035-BS1)               |        |                    |                |                  |          |               | Prepared: 1 | 2/12/23 Anal | yzed: 12/14/23 |
| Chloride                        | 242    | 20.0               | 250            |                  | 96.7     | 90-110        |             |              |                |
| Matrix Spike (2350035-MS1)      |        |                    |                | Source:          | E312048- | 02            | Prepared: 1 | 2/12/23 Anal | yzed: 12/14/23 |
| Chloride                        | 730    | 20.0               | 250            | 458              | 109      | 80-120        |             |              |                |
| Matrix Spike Dup (2350035-MSD1) |        |                    |                | Source:          | E312048- | 02            | Prepared: 1 | 2/12/23 Anal | yzed: 12/14/23 |

250

20.0

458

110

80-120

0.360

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



### **Definitions and Notes**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Federal Tank Battery |                |
|------------------------------|------------------|--------------------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001                           | Reported:      |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo                      | 12/15/23 16:27 |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



| Pa | age _ | 1  | _of_ | 1 | Receiv                                |
|----|-------|----|------|---|---------------------------------------|
| Pr | ogra  | m  | ]    |   | ed by                                 |
| 1  | SD    | WA |      |   | 00                                    |
|    | RC    | RA |      |   | D: 9/1                                |
|    |       |    | 1    |   | 8/2                                   |
| Z  | TX    |    |      |   | 024                                   |
| ks |       |    |      |   | Received by OCD: 9/18/2024 9:56:21 AM |
|    |       |    |      |   | AM                                    |

| Client:         | Matador Pro            | duction C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Company              |                                             | Bill To                                         |                      |                    | L               | ab U        | se On    | ly             |            |           |        | TA    | T                                              | EPA P               | rogram  |
|-----------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------|-------------------------------------------------|----------------------|--------------------|-----------------|-------------|----------|----------------|------------|-----------|--------|-------|------------------------------------------------|---------------------|---------|
|                 | Charlie Swe            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                                             | Attention: Matador Product                      | ion Company          | Lab Wo             | )#              |             | Job      |                |            |           | 2D     | 3D    | Standard                                       | CWA                 | SDWA    |
| Project         | Manager: As            | hley Giov                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | rengo                |                                             | Address: on file                                | Address: on file     |                    |                 | H           | 23       | 35             | 2-000      |           |        |       | X                                              |                     |         |
| Address         | : 3122 Natio           | nal Parks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Hwy                  |                                             | City, State, Zip:                               |                      |                    |                 |             | Analy    | sis a          | nd Metho   | d         |        |       |                                                |                     | RCRA    |
| City, Sta       | te, Zip: Carls         | sbad NM,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 88220                |                                             | Phone: (337)319-8398                            | Phone: (337)319-8398 |                    |                 |             |          |                |            |           |        |       |                                                |                     | 7       |
| Phone:          | 575-988-005            | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |                                             | Email: clinton.talley@matado                    | orresources.com      | 8                  |                 |             |          |                |            |           |        |       |                                                | State               |         |
| Email: a        | agiovengo@e            | ensolum.c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | com                  |                                             |                                                 |                      | 000                | -               |             |          | 0              |            | ΣZ        |        |       | NM CO                                          | UT AZ               | TX      |
| Report o        | due by:                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                                             |                                                 |                      | J/DF               | by 8021         | 8260        | 6010     | 300            |            |           |        | ¥     | ×                                              |                     | 173     |
| Time<br>Sampled | Date Sampled           | Matrix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No. of<br>Containers | Sample ID                                   |                                                 | Lab<br>Number        | TPH GRO/DRO/ORO by | 8015<br>BTEX by | VOC by 8260 | Metals 6 | Chloride 300.0 |            | BGDOC     |        | GDOC  |                                                | Remarks             |         |
| 10:00           | 12/6/2023              | Soil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 Jar                |                                             | PH01 - 0 <sup>t</sup>                           | 1                    |                    |                 |             |          |                |            | x         |        |       |                                                |                     |         |
| 10:02           | 12/6/2023              | Soil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 Jar                |                                             | PH01 - 1'                                       | 2                    |                    |                 |             |          |                |            | х         |        |       |                                                |                     |         |
| 10:04           | 12/6/2023              | Soil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 Jar                |                                             | PH01 - 2'                                       | 3                    |                    |                 |             |          |                |            | х         |        |       | Only                                           | run if PH01 - 1' is | > 600Cl |
| 12:21           | 12/6/2023              | Soil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 Jar                |                                             | PH02 - 0'                                       | 4                    |                    |                 |             |          |                |            | х         |        |       |                                                |                     |         |
| 12:22           | 12/6/2023              | Soil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 Jar                |                                             | PH02 - 1'                                       | 5                    |                    |                 |             |          |                |            | х         |        |       |                                                |                     |         |
| 12:24           | 12/6/2023              | Soil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 Jar                |                                             | PH02 - 2'                                       | 0                    |                    |                 |             |          |                |            | х         |        |       | Only                                           | run if PHO2 - 1' is | > 600Cl |
|                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                                             |                                                 |                      |                    |                 |             |          |                |            |           |        |       |                                                |                     |         |
|                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                                             |                                                 |                      |                    | -               |             |          |                |            |           |        |       |                                                |                     |         |
|                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                                             |                                                 |                      |                    | H               |             |          |                |            |           |        |       |                                                |                     |         |
| Addition        | al Instructio          | ns: Plea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | se CC: cl            | l<br>ourton@ensol                           | um.com, agiovengo@ensolum.con                   | n, chamilton@e       | nsolum             | .com,           | eha         | t@er     | ısolı          | ım.com     | _         |        |       |                                                |                     |         |
|                 |                        | A CONTRACTOR OF THE PARTY OF TH |                      | y of this sample. I                         | am aware that tampering with or intentionally r |                      | e location         |                 |             |          |                |            |           |        |       | ceived on ice the day<br>ess than 6 °C on subs |                     | led or  |
| telinguish      | ed by: (Signatur       | re)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Date                 | -7-23 Time                                  | Received by: (Signature)                        | Date 12-7-           | 23 Tim             | 60              | 6           | Rece     | eived          | on ice:    |           | ab Us  | se On | ly                                             |                     |         |
| w               | ed by: (Signatur       | My &                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      | 7-2) 17                                     | 30 Sporow H.S.  Received by: (Signature)        | 12.8                 | 200                | 20              | 0           | T1       |                |            | <u>T2</u> |        |       | <u>T3</u>                                      |                     |         |
| Sobie           | ew Us                  | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12                   | .8.13 13                                    | 2000 Clipin                                     | 12.8.                | 23 1               | 30              | 0           | AVG      | _              |            | +         |        | WO    |                                                |                     |         |
| imple Mat       | rix: S - Soil, Sd - Si | a or a construction of the | -                    | eous, <b>O</b> - Other<br>ts are reported u |                                                 | Container            | Type: g            | - glass         | , p - F     | oly/p    | lastic         | , ag - amb | er gl     | ass, v | - VOA | \                                              |                     |         |



enviroteche elient expense. The report for the analysis of the above

Printed: 12/11/2023 12:54:29PM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

| Client:      | Matador Resources, LLC.                                                                                                                                                                                | Date Received:  | 12/08/23 1 | 3:00             | Work Order ID:         | E312054         |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------|------------------|------------------------|-----------------|
| Phone:       | (972) 371-5200                                                                                                                                                                                         |                 | 12/08/23 1 |                  | Logged In By:          | Alexa Michaels  |
| Email:       | agiovngo@ensolum.com                                                                                                                                                                                   | Due Date:       |            | 7:00 (5 day TAT) | Logged III By.         | Alexa Michaels  |
| Dillaii.     | agio ingo conto inimo in                                                                                                                                                                               | Due Buie.       | 12/10/20   |                  |                        |                 |
| Chain of     | Custody (COC)                                                                                                                                                                                          |                 |            |                  |                        |                 |
| 1. Does th   | e sample ID match the COC?                                                                                                                                                                             |                 | Yes        |                  |                        |                 |
| 2. Does th   | e number of samples per sampling site location mat                                                                                                                                                     | ch the COC      | Yes        |                  |                        |                 |
| 3. Were sa   | imples dropped off by client or carrier?                                                                                                                                                               |                 | Yes        | Carrier: C       | <u>'ourier</u>         |                 |
| 4. Was the   | COC complete, i.e., signatures, dates/times, reques                                                                                                                                                    | ted analyses?   | Yes        |                  |                        |                 |
| 5. Were al   | l samples received within holding time?<br>Note: Analysis, such as pH which should be conducted in<br>i.e, 15 minute hold time, are not included in this disucssic                                     |                 | Yes        |                  | <u>Commen</u>          | ts/Resolution   |
| Sample T     | urn Around Time (TAT)                                                                                                                                                                                  |                 |            |                  | 0 1 0 161              |                 |
| 6. Did the   | COC indicate standard TAT, or Expedited TAT?                                                                                                                                                           |                 | Yes        |                  | Samples 3 and 6 have r |                 |
| Sample C     |                                                                                                                                                                                                        |                 |            |                  | only run these samples | if the previous |
|              | ample cooler received?                                                                                                                                                                                 |                 | Yes        |                  | sample is >600Cl.      |                 |
| 8. If yes, v | vas cooler received in good condition?                                                                                                                                                                 |                 | Yes        |                  | _                      |                 |
| 9. Was the   | sample(s) received intact, i.e., not broken?                                                                                                                                                           |                 | Yes        |                  |                        |                 |
| 10. Were     | custody/security seals present?                                                                                                                                                                        |                 | No         |                  |                        |                 |
| 11. If yes,  | were custody/security seals intact?                                                                                                                                                                    |                 | NA         |                  |                        |                 |
|              | e sample received on ice? If yes, the recorded temp is 4°C,<br>Note: Thermal preservation is not required, if samples are<br>minutes of sampling<br>risible ice, record the temperature. Actual sample | received w/i 15 | Yes        |                  |                        |                 |
| Sample C     |                                                                                                                                                                                                        |                 | _          |                  |                        |                 |
| _            | ueous VOC samples present?                                                                                                                                                                             |                 | No         |                  |                        |                 |
|              | OC samples collected in VOA Vials?                                                                                                                                                                     |                 | NA         |                  |                        |                 |
|              | head space less than 6-8 mm (pea sized or less)?                                                                                                                                                       |                 | NA         |                  |                        |                 |
| 17. Was a    | trip blank (TB) included for VOC analyses?                                                                                                                                                             |                 | NA         |                  |                        |                 |
| 18. Are no   | on-VOC samples collected in the correct containers?                                                                                                                                                    | •               | Yes        |                  |                        |                 |
|              | ppropriate volume/weight or number of sample contain                                                                                                                                                   |                 | Yes        |                  |                        |                 |
| Field Lab    | <u>el</u>                                                                                                                                                                                              |                 |            |                  |                        |                 |
| 20. Were     | field sample labels filled out with the minimum info                                                                                                                                                   | rmation:        |            |                  |                        |                 |
|              | imple ID?                                                                                                                                                                                              |                 | Yes        |                  |                        |                 |
|              | ate/Time Collected?                                                                                                                                                                                    |                 | Yes        | •                |                        |                 |
| _            | reservation                                                                                                                                                                                            |                 | Yes        |                  |                        |                 |
|              | he COC or field labels indicate the samples were pr                                                                                                                                                    | eserved?        | No         |                  |                        |                 |
|              | mple(s) correctly preserved?                                                                                                                                                                           |                 | NA         |                  |                        |                 |
|              | filteration required and/or requested for dissolved m                                                                                                                                                  | etals?          | No         |                  |                        |                 |
|              | se Sample Matrix                                                                                                                                                                                       |                 |            |                  |                        |                 |
|              | he sample have more than one phase, i.e., multiphas                                                                                                                                                    | se?             | No         |                  |                        |                 |
|              | does the COC specify which phase(s) is to be analy                                                                                                                                                     |                 | NA         |                  |                        |                 |
|              | act Laboratory                                                                                                                                                                                         |                 | . 11.1     |                  |                        |                 |
|              | mples required to get sent to a subcontract laborator                                                                                                                                                  | 77?             | No         |                  |                        |                 |
|              | subcontract laboratory specified by the client and if                                                                                                                                                  | -               | NA         | Subcontract Lab  | · N A                  |                 |
|              |                                                                                                                                                                                                        | so wiio.        | 1121       | Subcontract Lab  | . NA                   |                 |
| Chent In     | <u>struction</u>                                                                                                                                                                                       |                 |            |                  |                        |                 |
|              |                                                                                                                                                                                                        |                 |            |                  |                        |                 |
|              |                                                                                                                                                                                                        |                 |            |                  |                        | (3)             |

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Charlie Sweeney TB

Work Order: E401172

Job Number: 23052-0001

Received: 1/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/2/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/2/24

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Charlie Sweeney TB

Workorder: E401172

Date Received: 1/26/2024 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/26/2024 6:30:00AM, under the Project Name: Charlie Sweeney TB.

The analytical test results summarized in this report with the Project Name: Charlie Sweeney TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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**Alexa Michaels** 

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Client Representative

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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### **Sample Summary**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB | Donoutoda      |  |
|------------------------------|------------------|--------------------|----------------|--|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:      |  |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 02/02/24 14:44 |  |

| Client Sample ID | Lab Sample ID Matrix | Sampled  | Received | Container        |
|------------------|----------------------|----------|----------|------------------|
| FS18-1'          | E401172-01A Soil     | 01/24/24 | 01/26/24 | Glass Jar, 2 oz. |
| FS26-1'          | E401172-02A Soil     | 01/24/24 | 01/26/24 | Glass Jar, 2 oz. |
| FS30-1'          | E401172-03A Soil     | 01/24/24 | 01/26/24 | Glass Jar, 2 oz. |
| FS32-1'          | E401172-04A Soil     | 01/24/24 | 01/26/24 | Glass Jar, 2 oz. |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                    |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/2/2024 2:44:28PM |

#### FS18-1' E401172-01

|        | E4011/2-01                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Result | Reporting<br>Limit                              | Dilution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Prepared                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Analyzed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| mg/kg  | mg/kg                                           | Analys                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | t: IY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Batch: 2404056                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ND     | 0.0250                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ND     | 0.0250                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ND     | 0.0250                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ND     | 0.0250                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ND     | 0.0500                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ND     | 0.0250                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | 95.2 %                                          | 70-130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| mg/kg  | mg/kg                                           | Analys                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | t: IY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Batch: 2404056                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ND     | 20.0                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | 93.6 %                                          | 70-130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| mg/kg  | mg/kg                                           | Analys                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | t: KM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Batch: 2404062                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ND     | 25.0                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01/27/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ND     | 50.0                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01/27/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | 111 %                                           | 50-200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 01/26/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01/27/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| mg/kg  | mg/kg                                           | Analys                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | t: DT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Batch: 2405008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 339    | 200                                             | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg | Result         Reporting           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         20.0250           MB/kg         mg/kg           MB/kg         mg/kg           ND         20.0           93.6 %         mg/kg           ND         25.0           ND         50.0           111 %         mg/kg           mg/kg         mg/kg | Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Analys           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           MD         0.0250         1           MD         25.2 %         70-130           mg/kg         mg/kg         Analys           ND         20.0         1           Mg/kg         Mg/kg         Analys           ND         25.0         1           ND         50.0         1           111 %         50-200           mg/kg         Mg/kg         Analys | Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         01/26/24           ND         0.0250         1         01/26/24           ND         0.0250         1         01/26/24           ND         0.0500         1         01/26/24           ND         0.0250         1         01/26/24           ND         0.0250         1         01/26/24           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         01/26/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         01/26/24           ND         50.0         1         01/26/24           ND         50.0         1         01/26/24           ND         50.0         1         01/26/24           Mg/kg         mg/kg         Analyst: KM | Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         01/26/24         01/26/24           ND         0.0250         1         01/26/24         01/26/24           ND         0.0250         1         01/26/24         01/26/24           ND         0.0500         1         01/26/24         01/26/24           ND         0.0250         1         01/26/24         01/26/24           ND         0.0250         1         01/26/24         01/26/24           MD         0.0250         1         01/26/24         01/26/24           mg/kg         mg/kg         Analyst: IY         ND         20.0         1         01/26/24         01/26/24           MD         20.0         1         01/26/24         01/26/24         01/26/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         01/26/24         01/27/24           ND         50.0         1         01/26/24         01/27/24           ND         50.0         1         01/26 |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                    |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/2/2024 2:44:28PM |

#### FS26-1'

#### E401172-02

|                                                |        | Reporting |          |          |          |                |
|------------------------------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                                        | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg     | Analys   | st: IY   |          | Batch: 2404056 |
| Benzene                                        | ND     | 0.0250    | 1        | 01/26/24 | 01/26/24 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1        | 01/26/24 | 01/26/24 |                |
| Toluene                                        | ND     | 0.0250    | 1        | 01/26/24 | 01/26/24 |                |
| o-Xylene                                       | ND     | 0.0250    | 1        | 01/26/24 | 01/26/24 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1        | 01/26/24 | 01/26/24 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1        | 01/26/24 | 01/26/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 94.9 %    | 70-130   | 01/26/24 | 01/26/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | Analys   | st: IY   |          | Batch: 2404056 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1        | 01/26/24 | 01/26/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 94.7 %    | 70-130   | 01/26/24 | 01/26/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | Analys   | st: KM   |          | Batch: 2404062 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1        | 01/26/24 | 01/27/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1        | 01/26/24 | 01/27/24 |                |
| Surrogate: n-Nonane                            |        | 118 %     | 50-200   | 01/26/24 | 01/27/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | Analys   | st: IY   |          | Batch: 2405008 |
| Chloride                                       | 344    | 200       | 10       | 01/29/24 | 01/29/24 | ·              |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                    |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/2/2024 2:44:28PM |

#### FS30-1'

#### E401172-03

|                                                |        | Reporting |          |          |          |                |
|------------------------------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                                        | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg     | Analys   | t: IY    |          | Batch: 2404056 |
| Benzene                                        | ND     | 0.0250    | 1        | 01/26/24 | 01/26/24 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1        | 01/26/24 | 01/26/24 |                |
| Toluene                                        | ND     | 0.0250    | 1        | 01/26/24 | 01/26/24 |                |
| o-Xylene                                       | ND     | 0.0250    | 1        | 01/26/24 | 01/26/24 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1        | 01/26/24 | 01/26/24 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1        | 01/26/24 | 01/26/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 94.7 %    | 70-130   | 01/26/24 | 01/26/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | Analys   | t: IY    |          | Batch: 2404056 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1        | 01/26/24 | 01/26/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 93.4 %    | 70-130   | 01/26/24 | 01/26/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | Analys   | t: KM    |          | Batch: 2404062 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1        | 01/26/24 | 01/27/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1        | 01/26/24 | 01/27/24 |                |
| Surrogate: n-Nonane                            |        | 104 %     | 50-200   | 01/26/24 | 01/27/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | Analys   | t: IY    |          | Batch: 2405008 |
| · · · · · · · · · · · · · · · · · · ·          | 403    | 200       | 10       | 01/29/24 | 01/29/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                    |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/2/2024 2:44:28PM |

#### FS32-1'

#### E401172-04

|                                                |        | Reporting |          |          |          |                |
|------------------------------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                                        | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg     | Anal     | yst: IY  |          | Batch: 2404056 |
| Benzene                                        | ND     | 0.0250    | 1        | 01/26/24 | 01/26/24 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1        | 01/26/24 | 01/26/24 |                |
| Toluene                                        | ND     | 0.0250    | 1        | 01/26/24 | 01/26/24 |                |
| o-Xylene                                       | ND     | 0.0250    | 1        | 01/26/24 | 01/26/24 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1        | 01/26/24 | 01/26/24 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1        | 01/26/24 | 01/26/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 95.5 %    | 70-130   | 01/26/24 | 01/26/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | Anal     | yst: IY  |          | Batch: 2404056 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1        | 01/26/24 | 01/26/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 94.7 %    | 70-130   | 01/26/24 | 01/26/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | Anal     | yst: KM  |          | Batch: 2404062 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1        | 01/26/24 | 01/27/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1        | 01/26/24 | 01/27/24 |                |
| Surrogate: n-Nonane                            |        | 107 %     | 50-200   | 01/26/24 | 01/27/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | Anal     | yst: IY  |          | Batch: 2405008 |
| Chloride                                       | 418    | 200       | 10       | 01/29/24 | 01/29/24 |                |



Charlie Sweeney TB Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23052-0001 Dallas TX, 75240 Project Manager: Ashley Giovengo 2/2/2024 2:44:28PM **Volatile Organics by EPA 8021B** Analyst: IY Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2404056-BLK1) Prepared: 01/26/24 Analyzed: 01/26/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.81 8.00 97.6 70-130 LCS (2404056-BS1) Prepared: 01/26/24 Analyzed: 01/26/24 5.13 103 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.08 0.0250 5.00 102 70-130 5.13 0.0250 5.00 103 70-130 Toluene 102 o-Xylene 5.09 0.0250 5.00 70-130 10.4 10.0 104 70-130 0.0500 p.m-Xvlene 103 70-130 15.4 15.0 Total Xylenes 0.0250 8.00 98.5 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.88 Matrix Spike (2404056-MS1) Source: E401168-03 Prepared: 01/26/24 Analyzed: 01/26/24 5.06 0.0250 5.00 ND 54-133 Benzene ND 61-133 Ethylbenzene 4.99 0.0250 5.00 99.8 Toluene 5.06 0.0250 5.00 ND 101 61-130 ND 100 63-131 5.01 5.00 0.0250 o-Xylene p,m-Xylene 10.2 0.0500 10.0 ND 102 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.61 8.00 Matrix Spike Dup (2404056-MSD1) Source: E401168-03 Prepared: 01/26/24 Analyzed: 01/26/24 5.04 0.0250 5.00 ND 54-133 0.443

ND

ND

ND

ND

ND

100

101

100

102

101

97.5

5.00

5.00

5.00

10.0

15.0

8.00

5.00

5.04

5.02

10.2

15.2

7.80

0.0250

0.0250

0.0250

0.0500

0.0250

61-133

61-130

63-131

63-131

63-131

70-130

0.247

0.322

0.260

0.300

0.287

20

20

20

20

20



Ethylbenzene Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

| Matador Resources, LLC.<br>5400 LBJ Freeway, Suite 1500 | Project Name: Project Number: | Charlie Sweeney TB<br>23052-0001 | Reported:          |
|---------------------------------------------------------|-------------------------------|----------------------------------|--------------------|
| Dallas TX, 75240                                        | Project Manager:              | Ashley Giovengo                  | 2/2/2024 2:44:28PM |

| Dallas TX, 75240                        |                 | Project Manage              | r: As                   | shley Gioveng             | go        |                    |             | 2/                | 2/2024 2:44:28PM |
|-----------------------------------------|-----------------|-----------------------------|-------------------------|---------------------------|-----------|--------------------|-------------|-------------------|------------------|
|                                         | Non             | halogenated                 | Organics l              | by EPA 80                 | 15D - GI  | RO                 |             |                   | Analyst: IY      |
| Analyte                                 | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>%  | Rec<br>Limits<br>% | RPD<br>%    | RPD<br>Limit<br>% | Notes            |
| Blank (2404056-BLK1)                    |                 |                             |                         |                           |           |                    | Prepared: 0 | 1/26/24 Anal      | yzed: 01/26/24   |
| Gasoline Range Organics (C6-C10)        | ND              | 20.0                        |                         |                           |           |                    |             |                   |                  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.49            |                             | 8.00                    |                           | 93.6      | 70-130             |             |                   |                  |
| LCS (2404056-BS2)                       |                 |                             |                         |                           |           |                    | Prepared: 0 | 1/26/24 Anal      | yzed: 01/26/24   |
| Gasoline Range Organics (C6-C10)        | 52.5            | 20.0                        | 50.0                    |                           | 105       | 70-130             |             |                   |                  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.71            |                             | 8.00                    |                           | 96.4      | 70-130             |             |                   |                  |
| Matrix Spike (2404056-MS2)              |                 |                             |                         | Source:                   | E401168-0 | )3                 | Prepared: 0 | 1/26/24 Anal      | yzed: 01/26/24   |
| Gasoline Range Organics (C6-C10)        | 50.2            | 20.0                        | 50.0                    | ND                        | 100       | 70-130             |             |                   |                  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.52            |                             | 8.00                    |                           | 94.1      | 70-130             |             |                   |                  |
| Matrix Spike Dup (2404056-MSD2)         |                 |                             |                         | Source:                   | E401168-0 | )3                 | Prepared: 0 | 1/26/24 Anal      | yzed: 01/26/24   |
| Gasoline Range Organics (C6-C10)        | 49.4            | 20.0                        | 50.0                    | ND                        | 98.7      | 70-130             | 1.73        | 20                |                  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.66            |                             | 8.00                    |                           | 95.8      | 70-130             |             |                   |                  |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB | Reported:          |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         |                    |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/2/2024 2:44:28PM |

| Danas 1X, 73240                 |        | 1 Toject Wianage   | 1. 713         | mey Gloveng      | 50        |               |             |              | 2/2/2021 2:11:2011 |
|---------------------------------|--------|--------------------|----------------|------------------|-----------|---------------|-------------|--------------|--------------------|
|                                 | Nonha  | logenated Or       | ganics by      | EPA 8015I        | ) - DRO   | /ORO          |             |              | Analyst: KM        |
| Analyte                         | Result | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec       | Rec<br>Limits | RPD         | RPD<br>Limit |                    |
|                                 | mg/kg  | mg/kg              | mg/kg          | mg/kg            | %         | %             | %           | %            | Notes              |
| Blank (2404062-BLK1)            |        |                    |                |                  |           |               | Prepared: 0 | 1/26/24 An   | alyzed: 01/26/24   |
| Diesel Range Organics (C10-C28) | ND     | 25.0               |                |                  |           |               |             |              |                    |
| Oil Range Organics (C28-C36)    | ND     | 50.0               |                |                  |           |               |             |              |                    |
| Surrogate: n-Nonane             | 54.4   |                    | 50.0           |                  | 109       | 50-200        |             |              |                    |
| LCS (2404062-BS1)               |        |                    |                |                  |           |               | Prepared: 0 | 1/26/24 An   | alyzed: 01/26/24   |
| Diesel Range Organics (C10-C28) | 262    | 25.0               | 250            |                  | 105       | 38-132        |             |              |                    |
| Surrogate: n-Nonane             | 53.8   |                    | 50.0           |                  | 108       | 50-200        |             |              |                    |
| Matrix Spike (2404062-MS1)      |        |                    |                | Source:          | E401160-0 | 05            | Prepared: 0 | 1/26/24 An   | alyzed: 01/26/24   |
| Diesel Range Organics (C10-C28) | 271    | 25.0               | 250            | ND               | 108       | 38-132        |             |              |                    |
| Surrogate: n-Nonane             | 54.8   |                    | 50.0           |                  | 110       | 50-200        |             |              |                    |
| Matrix Spike Dup (2404062-MSD1) |        |                    |                | Source:          | E401160-0 | 05            | Prepared: 0 | 1/26/24 An   | alyzed: 01/27/24   |
| Diesel Range Organics (C10-C28) | 280    | 25.0               | 250            | ND               | 112       | 38-132        | 3.17        | 20           |                    |
| Surrogate: n-Nonane             | 55.1   |                    | 50.0           |                  | 110       | 50-200        |             |              |                    |

Chloride

Chloride

Chloride

Matrix Spike (2405008-MS1)

Matrix Spike Dup (2405008-MSD1)

### **QC Summary Data**

| Matador Resources, LLC.<br>5400 LBJ Freeway, Suite 1500<br>Dallas TX, 75240 |                 | 3                           | Project Name: Charlie Sweeney TB Project Number: 23052-0001 Project Manager: Ashley Giovengo |                           |          |               |             | <b>Reported:</b> 2/2/2024 2:44:28P |                    |  |  |
|-----------------------------------------------------------------------------|-----------------|-----------------------------|----------------------------------------------------------------------------------------------|---------------------------|----------|---------------|-------------|------------------------------------|--------------------|--|--|
|                                                                             |                 | Anions                      | by EPA                                                                                       | 300.0/9056                | A        |               |             |                                    | Analyst: DT        |  |  |
| Analyte                                                                     | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg                                                                      | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits | RPD<br>%    | RPD<br>Limit<br>%                  | Notes              |  |  |
| Blank (2405008-BLK1)                                                        |                 |                             |                                                                                              |                           |          | I             | Prepared: 0 | 1/29/24 A                          | analyzed: 01/29/24 |  |  |
| Chloride                                                                    | ND              | 20.0                        |                                                                                              |                           |          |               |             |                                    |                    |  |  |
| LCS (2405008-BS1)                                                           |                 |                             |                                                                                              |                           |          | I             | Prepared: 0 | 1/29/24 A                          | analyzed: 01/29/24 |  |  |

250

250

250

20.0

20.0

20.0

99.2

99.7

102

Source: E401177-05

Source: E401177-05

91.6

91.6

90-110

80-120

80-120

1.34

Prepared: 01/29/24 Analyzed: 01/29/24

Prepared: 01/29/24 Analyzed: 01/29/24

20

248

341

345

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



### **Definitions and Notes**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                |
|------------------------------|------------------|--------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:      |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 02/02/24 14:44 |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



| Ch | ain | of | Cu | sto | bc |
|----|-----|----|----|-----|----|
|    |     |    |    |     |    |

| Page | of |
|------|----|

| Project I       | nformation            |              |                      |                          | Cl                                                                                         | hain of Custo                  | dy |                            |              |             |             |                |       |          |           |        |               |           |                | Page         | <u></u>  |
|-----------------|-----------------------|--------------|----------------------|--------------------------|--------------------------------------------------------------------------------------------|--------------------------------|----|----------------------------|--------------|-------------|-------------|----------------|-------|----------|-----------|--------|---------------|-----------|----------------|--------------|----------|
| Client: 1       | Matador Prod          | duction C    | ompany.              | T.                       | Bill To                                                                                    |                                |    |                            | La           | b Us        | e Or        | nly            |       |          |           | -      | TA            | \T        |                | EPA P        | rogram   |
| Project:        | Charlie Swe           | eney TB      |                      |                          | Attention: Matador Production                                                              | Company                        |    |                            |              |             | Job Number  |                |       |          | 1D        | 2D     | 3D            | Sta       | ndard          | CWA          | SDWA     |
| Project I       | Manager: As           | hley Giov    | vengo                |                          | Address: on file                                                                           |                                | EL | 401                        | 172          | _           | 23          | 052            | -000  | 1        |           |        |               |           | x              |              |          |
| Address         | 3122 Natio            | nal Parks    | Hwy                  |                          | City, State, Zip:                                                                          |                                |    |                            |              |             |             |                | nd Me |          | 1         |        |               |           |                |              | RCRA     |
| City, Sta       | te, Zip: Carls        | bad NM,      | 88220                |                          | Phone: (337)319-8398                                                                       | 37)319-8398                    |    |                            |              |             |             |                |       |          |           |        |               |           |                |              |          |
|                 | 575-988-005           |              |                      |                          | Email: clinton.talley@matadorr                                                             | on.talley@matadorresources.com |    |                            |              |             |             |                |       |          |           |        |               |           |                | State        |          |
| Email: a        | giovengo@e            | nsolum.c     | om                   |                          |                                                                                            |                                |    | RO/                        | 21           | Q           | 0           | 0.0            |       |          | ΣN        |        | $ _{\times} $ |           | NM CO          | UT AZ        | TX       |
| Report o        | lue by:               |              |                      |                          |                                                                                            |                                |    | 0/0                        | /80          | 826         | 601         | e 30           |       | I        |           |        | ¥             |           | ×              |              |          |
| Time<br>Sampled | Date Sampled          | Matrix       | No. of<br>Containers | Sample ID                |                                                                                            | Lab<br>Number                  |    | TPH GRO/DRO/ORO by<br>8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 |       | тсео трн | верос     |        | GDOC          |           |                | Remarks      |          |
| 12:12           | 1/24/2024             | Soil         | 1                    |                          | FS18 - 1'                                                                                  | 1                              |    |                            |              |             |             |                |       |          | Х         |        |               |           |                |              |          |
| 12:00           | 1/24/2024             | Soil         | 1                    |                          | FS26 - 1'                                                                                  | 2                              |    |                            |              |             |             |                |       |          | X         |        |               |           |                |              |          |
| 11:56           | 1/24/2024             | Soil         | 1                    |                          | FS30 - 1'                                                                                  | 3                              |    |                            |              |             |             |                |       |          | X         |        |               |           |                |              |          |
| 15:19           | 1/24/2024             | soil         | 1                    |                          | FS32 - 1'                                                                                  | 4                              |    |                            |              |             |             |                |       |          | Х         |        |               |           |                |              |          |
|                 |                       |              |                      |                          |                                                                                            |                                |    |                            |              |             |             |                |       |          |           |        |               |           |                |              |          |
|                 |                       |              |                      |                          |                                                                                            |                                |    |                            |              |             |             |                |       |          |           |        |               |           |                |              |          |
|                 |                       |              |                      |                          |                                                                                            |                                |    |                            |              |             |             |                |       |          |           |        |               |           |                |              |          |
|                 |                       |              |                      |                          |                                                                                            |                                |    |                            |              |             |             |                |       |          |           |        |               |           |                |              |          |
|                 |                       |              |                      |                          |                                                                                            |                                |    |                            |              |             |             |                |       |          |           |        |               |           |                |              |          |
|                 |                       |              |                      |                          | m.com, agiovengo@ensolum.com,                                                              |                                |    |                            | om,          |             |             |                |       |          |           |        |               |           | .com           | they are sam | pled or  |
| date or time    |                       | onsidered fr | aud and ma           | y be grounds for legal a |                                                                                            | ton                            |    |                            | -            |             |             |                |       |          | avg ten   | np abo |               | less than | n 6 °C on subs |              |          |
| ~               | ed by: (Signatur      | 4            | Date                 | Time                     | Receiged by: (Signature)                                                                   | Date 1-25                      | 24 | Time                       | 815          |             | Rece        | eived          | on ic | e:       |           | )/ N   |               | 4         |                |              |          |
| Mia             | ed by: (Signatur      | ug h         | Date                 |                          | Received by: (Signature)                                                                   | 1-25.                          | 14 | 16<br>Time                 | 30           | >           | <u>T1</u>   |                | _     | _        | <u>T2</u> |        |               | _ :       | T3             |              |          |
| choh            | V HB                  | 90           |                      | 25.24 23                 | 30 hughigh R Hall                                                                          | 1-26-                          |    |                            | 930          |             |             | Tem            |       | 4        |           |        | 1/2           |           |                |              |          |
|                 | rix: S - Soil, Sd - S |              |                      |                          |                                                                                            | Containe                       |    |                            |              |             |             | 200            | -     |          | -         |        |               |           |                |              |          |
|                 |                       |              |                      |                          | ess other arrangements are made. Hazardo<br>ory with this COC. The liability of the labora |                                |    |                            |              |             |             |                |       | clier    | nt exp    | pense  | The           | report    | for the an     | aiysis of th | ie above |



envirotech

Printed: 1/26/2024 1:23:26PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

| Client:         | Matador Resources, LLC.                                                                                                                         | Date Received:   | 01/26/24 | 06:30             |             | Work Order ID: | E401172        |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|-------------------|-------------|----------------|----------------|
| Phone:          | (972) 371-5200                                                                                                                                  | Date Logged In:  | 01/25/24 | 15:28             |             | Logged In By:  | Alexa Michaels |
| Email:          | agiovngo@ensolum.com                                                                                                                            | Due Date:        |          | 17:00 (4 day TAT) |             | 88             |                |
|                 |                                                                                                                                                 |                  |          |                   |             |                |                |
| Chain of        | Custody (COC)                                                                                                                                   |                  |          |                   |             |                |                |
| 1. Does th      | ne sample ID match the COC?                                                                                                                     |                  | Yes      |                   |             |                |                |
|                 | ne number of samples per sampling site location ma                                                                                              | tch the COC      | Yes      |                   |             |                |                |
| 3. Were sa      | amples dropped off by client or carrier?                                                                                                        |                  | Yes      | Carrier: C        | Courier     |                |                |
| 4. Was the      | e COC complete, i.e., signatures, dates/times, reque                                                                                            | sted analyses?   | Yes      |                   | <del></del> |                |                |
| 5. Were a       | Il samples received within holding time?                                                                                                        | ·                | Yes      |                   |             |                |                |
|                 | Note: Analysis, such as pH which should be conducted in i.e. 15 minute hold time, are not included in this disucssi                             |                  |          |                   |             | Comments       | s/Resolution   |
| Sample T        | Curn Around Time (TAT)                                                                                                                          |                  |          |                   |             |                |                |
|                 | COC indicate standard TAT, or Expedited TAT?                                                                                                    |                  | Yes      |                   |             |                |                |
| Sample C        | • •                                                                                                                                             |                  |          |                   |             |                |                |
| _               | sample cooler received?                                                                                                                         |                  | Yes      |                   |             |                |                |
|                 | was cooler received in good condition?                                                                                                          |                  | Yes      |                   |             |                |                |
| •               | e sample(s) received intact, i.e., not broken?                                                                                                  |                  | Yes      |                   |             |                |                |
|                 | custody/security seals present?                                                                                                                 |                  |          |                   |             |                |                |
|                 | * *                                                                                                                                             |                  | No       |                   |             |                |                |
| •               | , were custody/security seals intact?                                                                                                           |                  | NA       |                   |             |                |                |
| 12. Was th      | e sample received on ice? If yes, the recorded temp is 4°C.<br>Note: Thermal preservation is not required, if samples ar<br>minutes of sampling |                  | Yes      |                   |             |                |                |
| 13. If no v     | visible ice, record the temperature.  Actual sample                                                                                             | temperature: 4°0 | <u>C</u> |                   |             |                |                |
| Sample C        | <u>Container</u>                                                                                                                                |                  |          |                   |             |                |                |
| 14. Are a       | queous VOC samples present?                                                                                                                     |                  | No       |                   |             |                |                |
| 15. Are V       | OC samples collected in VOA Vials?                                                                                                              |                  | NA       |                   |             |                |                |
| 16. Is the      | head space less than 6-8 mm (pea sized or less)?                                                                                                |                  | NA       |                   |             |                |                |
| 17. Was a       | trip blank (TB) included for VOC analyses?                                                                                                      |                  | NA       |                   |             |                |                |
| 18. Are no      | on-VOC samples collected in the correct containers                                                                                              | ?                | Yes      |                   |             |                |                |
| 19. Is the a    | appropriate volume/weight or number of sample contain                                                                                           | ners collected?  | Yes      |                   |             |                |                |
| Field Lab       | oe <u>l</u>                                                                                                                                     |                  |          |                   |             |                |                |
|                 | field sample labels filled out with the minimum info                                                                                            | ormation:        |          |                   |             |                |                |
| S               | ample ID?                                                                                                                                       |                  | Yes      |                   |             |                |                |
|                 | ate/Time Collected?                                                                                                                             |                  | Yes      |                   |             |                |                |
| C               | ollectors name?                                                                                                                                 |                  | Yes      |                   |             |                |                |
|                 | reservation                                                                                                                                     |                  |          |                   |             |                |                |
|                 | the COC or field labels indicate the samples were p                                                                                             | reserved?        | No       |                   |             |                |                |
|                 | ample(s) correctly preserved?                                                                                                                   |                  | NA       |                   |             |                |                |
| 24. Is lab      | filteration required and/or requested for dissolved n                                                                                           | netals?          | No       |                   |             |                |                |
| <u>Multipha</u> | se Sample Matrix                                                                                                                                |                  |          |                   |             |                |                |
| 26. Does        | the sample have more than one phase, i.e., multipha                                                                                             | se?              | No       |                   |             |                |                |
| 27. If yes,     | , does the COC specify which phase(s) is to be analy                                                                                            | yzed?            | NA       |                   |             |                |                |
| Subcontr        | act Laboratory                                                                                                                                  |                  |          |                   |             |                |                |
|                 | amples required to get sent to a subcontract laborato                                                                                           | rv?              | No       |                   |             |                |                |
|                 | subcontract laboratory specified by the client and i                                                                                            | -                | NA       | Subcontract Lab   | o: NA       |                |                |
|                 |                                                                                                                                                 |                  |          |                   |             |                |                |
| Chent II        | <u>nstruction</u>                                                                                                                               |                  |          |                   |             |                |                |
|                 |                                                                                                                                                 |                  |          |                   |             |                |                |
|                 |                                                                                                                                                 |                  |          |                   |             |                |                |
|                 |                                                                                                                                                 |                  |          |                   |             |                |                |
|                 |                                                                                                                                                 |                  |          |                   |             |                |                |
|                 |                                                                                                                                                 |                  |          |                   |             |                |                |
|                 |                                                                                                                                                 |                  |          |                   |             |                |                |
|                 |                                                                                                                                                 |                  |          |                   |             |                |                |
|                 |                                                                                                                                                 |                  |          |                   |             |                |                |

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Charlie Sweeney TB

Work Order: E401203

Job Number: 23052-0001

Received: 1/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/1/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/1/24

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Charlie Sweeney TB

Workorder: E401203

Date Received: 1/29/2024 9:23:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/29/2024 9:23:00AM, under the Project Name: Charlie Sweeney TB.

The analytical test results summarized in this report with the Project Name: Charlie Sweeney TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com



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### Sample Summary

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB | Donoutode      |  |
|------------------------------|------------------|--------------------|----------------|--|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:      |  |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 02/01/24 16:15 |  |

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| FS10 - 1'        | E401203-01A   | Soil   | 01/26/24 | 01/29/24 | Glass Jar, 2 oz. |
| FS11-1'          | E401203-02A   | Soil   | 01/26/24 | 01/29/24 | Glass Jar, 2 oz. |
| FS12-1'          | E401203-03A   | Soil   | 01/26/24 | 01/29/24 | Glass Jar, 2 oz. |
| FS13-1'          | E401203-04A   | Soil   | 01/26/24 | 01/29/24 | Glass Jar, 2 oz. |
| FS14-1'          | E401203-05A   | Soil   | 01/26/24 | 01/29/24 | Glass Jar, 2 oz. |
| FS20-1'          | E401203-06A   | Soil   | 01/26/24 | 01/29/24 | Glass Jar, 2 oz. |
| FS22-1'          | E401203-07A   | Soil   | 01/26/24 | 01/29/24 | Glass Jar, 2 oz. |
| FS28-1'          | E401203-08A   | Soil   | 01/26/24 | 01/29/24 | Glass Jar, 2 oz. |
| FS15-1.5'        | E401203-09A   | Soil   | 01/26/24 | 01/29/24 | Glass Jar, 2 oz. |
| FS19-1.5'        | E401203-10A   | Soil   | 01/26/24 | 01/29/24 | Glass Jar, 2 oz. |
| FS21-2'          | E401203-11A   | Soil   | 01/26/24 | 01/29/24 | Glass Jar, 2 oz. |
| FS23-2'          | E401203-12A   | Soil   | 01/26/24 | 01/29/24 | Glass Jar, 2 oz. |
| FS27-2'          | E401203-13A   | Soil   | 01/26/24 | 01/29/24 | Glass Jar, 2 oz. |
| FS33-1.5'        | E401203-14A   | Soil   | 01/26/24 | 01/29/24 | Glass Jar, 2 oz. |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                    |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/1/2024 4:15:27PM |

#### FS10 - 1' E401203-01

|        | E401203-01                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Result | Reporting<br>Limit                                 | Dilution                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Prepared                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Analyzed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| mg/kg  | mg/kg                                              | Analy                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | vst: BA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Batch: 2405015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ND     | 0.0250                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ND     | 0.0250                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ND     | 0.0250                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ND     | 0.0250                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ND     | 0.0500                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ND     | 0.0250                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        | 101 %                                              | 70-130                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| mg/kg  | mg/kg                                              | Analy                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | vst: BA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Batch: 2405015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ND     | 20.0                                               | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        | 91.5 %                                             | 70-130                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| mg/kg  | mg/kg                                              | Analy                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | st: KM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Batch: 2405017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ND     | 25.0                                               | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ND     | 50.0                                               | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        | 98.3 %                                             | 50-200                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| mg/kg  | mg/kg                                              | Analy                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | vst: DT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Batch: 2405018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 394    | 200                                                | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        | mg/kg ND Mg/kg ND mg/kg | Result         Reporting Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           I01 %         mg/kg           mg/kg         mg/kg           ND         20.0           91.5 %         mg/kg           ND         25.0           ND         50.0           98.3 %         mg/kg           mg/kg         mg/kg | Reporting           Result         Limit         Dilution           mg/kg         Mg/kg         Analy           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           MD         0.0250         1           MD         20.0250         1           Mg/kg         Mg/kg         Analy           ND         20.0         1           Mg/kg         Mg/kg         Analy           ND         25.0         1           ND         50.0         1           Mg/kg         Mg/kg         Analy           Mg/kg         Mg/kg         Analy | Reporting Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         01/29/24           ND         0.0250         1         01/29/24           ND         0.0250         1         01/29/24           ND         0.0500         1         01/29/24           ND         0.0250         1         01/29/24           ND         0.0250         1         01/29/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         01/29/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         01/29/24           ND         50.0         0         01/29/2 | Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         01/29/24         01/29/24           ND         0.0250         1         01/29/24         01/29/24           ND         0.0250         1         01/29/24         01/29/24           ND         0.0500         1         01/29/24         01/29/24           ND         0.0250         1         01/29/24         01/29/24           ND         0.0250         1         01/29/24         01/29/24           ND         0.0250         1         01/29/24         01/29/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         01/29/24         01/29/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         01/29/24         01/29/24           ND         50.0         1         01/29/24         01/29/24           ND         50.0         1         01/29/24         01/29/24           ND         50.0         1         01/29/24 |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                    |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/1/2024 4:15:27PM |

### FS11-1'

| E401203-02                                     |        |           |          |          |          |                |
|------------------------------------------------|--------|-----------|----------|----------|----------|----------------|
|                                                |        | Reporting |          |          |          |                |
| Analyte                                        | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg     | Analys   | st: BA   |          | Batch: 2405015 |
| Benzene                                        | ND     | 0.0250    | 1        | 01/29/24 | 01/29/24 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1        | 01/29/24 | 01/29/24 |                |
| Toluene                                        | ND     | 0.0250    | 1        | 01/29/24 | 01/29/24 |                |
| o-Xylene                                       | ND     | 0.0250    | 1        | 01/29/24 | 01/29/24 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1        | 01/29/24 | 01/29/24 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 100 %     | 70-130   | 01/29/24 | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | Analys   | st: BA   |          | Batch: 2405015 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 91.1 %    | 70-130   | 01/29/24 | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | Analys   | st: KM   |          | Batch: 2405017 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1        | 01/29/24 | 01/29/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: n-Nonane                            |        | 91.7 %    | 50-200   | 01/29/24 | 01/29/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | Analys   | st: DT   |          | Batch: 2405018 |
| Chloride                                       | 348    | 200       | 10       | 01/29/24 | 01/29/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                    |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/1/2024 4:15:27PM |

#### FS12-1' E401203-03

|                                                |        | 1.401205 05        |          |          |          |                |
|------------------------------------------------|--------|--------------------|----------|----------|----------|----------------|
| Analyte                                        | Result | Reporting<br>Limit | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg              | Analy    | st: BA   |          | Batch: 2405015 |
| Benzene                                        | ND     | 0.0250             | 1        | 01/29/24 | 01/29/24 |                |
| Ethylbenzene                                   | ND     | 0.0250             | 1        | 01/29/24 | 01/29/24 |                |
| oluene                                         | ND     | 0.0250             | 1        | 01/29/24 | 01/29/24 |                |
| -Xylene                                        | ND     | 0.0250             | 1        | 01/29/24 | 01/29/24 |                |
| ,m-Xylene                                      | ND     | 0.0500             | 1        | 01/29/24 | 01/29/24 |                |
| Total Xylenes                                  | ND     | 0.0250             | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 99.7 %             | 70-130   | 01/29/24 | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg              | Analy    | st: BA   |          | Batch: 2405015 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0               | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 91.6 %             | 70-130   | 01/29/24 | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg              | Analy    | st: KM   |          | Batch: 2405017 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0               | 1        | 01/29/24 | 01/30/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0               | 1        | 01/29/24 | 01/30/24 |                |
| Surrogate: n-Nonane                            |        | 96.0 %             | 50-200   | 01/29/24 | 01/30/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg              | Analy    | st: DT   |          | Batch: 2405018 |
| Chloride                                       | 381    | 200                | 10       | 01/29/24 | 01/29/24 |                |
|                                                |        |                    |          |          |          |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                    |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/1/2024 4:15:27PM |

#### FS13-1'

#### E401203-04

|                                                |        | Reporting |          |          |          |                |
|------------------------------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                                        | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg     | Analy    | st: BA   |          | Batch: 2405015 |
| Benzene                                        | ND     | 0.0250    | 1        | 01/29/24 | 01/29/24 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1        | 01/29/24 | 01/29/24 |                |
| Toluene                                        | ND     | 0.0250    | 1        | 01/29/24 | 01/29/24 |                |
| o-Xylene                                       | ND     | 0.0250    | 1        | 01/29/24 | 01/29/24 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1        | 01/29/24 | 01/29/24 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 101 %     | 70-130   | 01/29/24 | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | Analy    | st: BA   |          | Batch: 2405015 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 91.5 %    | 70-130   | 01/29/24 | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | Analy    | st: KM   |          | Batch: 2405017 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1        | 01/29/24 | 01/30/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1        | 01/29/24 | 01/30/24 |                |
| Surrogate: n-Nonane                            |        | 90.4 %    | 50-200   | 01/29/24 | 01/30/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | Analy    | st: DT   |          | Batch: 2405018 |
| Chloride                                       | 328    | 200       | 10       | 01/29/24 | 01/29/24 | •              |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                    |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/1/2024 4:15:27PM |

### FS14-1'

| E401203-05                                     |                                                |        |             |             |          |                |
|------------------------------------------------|------------------------------------------------|--------|-------------|-------------|----------|----------------|
| Reporting                                      |                                                |        |             |             |          |                |
| Analyte                                        | Result                                         | Limit  | Dilution    | Prepared    | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg                                          | mg/kg  | Analy       | Analyst: BA |          | Batch: 2405015 |
| Benzene                                        | ND                                             | 0.0250 | 1           | 01/29/24    | 01/29/24 |                |
| Ethylbenzene                                   | ND                                             | 0.0250 | 1           | 01/29/24    | 01/29/24 |                |
| Toluene                                        | ND                                             | 0.0250 | 1           | 01/29/24    | 01/29/24 |                |
| o-Xylene                                       | ND                                             | 0.0250 | 1           | 01/29/24    | 01/29/24 |                |
| p,m-Xylene                                     | ND                                             | 0.0500 | 1           | 01/29/24    | 01/29/24 |                |
| Total Xylenes                                  | ND                                             | 0.0250 | 1           | 01/29/24    | 01/29/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |                                                | 100 %  | 70-130      | 01/29/24    | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg                                          | mg/kg  | Analyst: BA |             |          | Batch: 2405015 |
| Gasoline Range Organics (C6-C10)               | ND                                             | 20.0   | 1           | 01/29/24    | 01/29/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |                                                | 91.9 % | 70-130      | 01/29/24    | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | ogenated Organics by EPA 8015D - DRO/ORO mg/kg |        | Analyst: KM |             |          | Batch: 2405017 |
| Diesel Range Organics (C10-C28)                | ND                                             | 25.0   | 1           | 01/29/24    | 01/30/24 |                |
| Oil Range Organics (C28-C36)                   | ND                                             | 50.0   | 1           | 01/29/24    | 01/30/24 |                |
| Surrogate: n-Nonane                            |                                                | 100 %  | 50-200      | 01/29/24    | 01/30/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg                                          | mg/kg  | Analy       | vst: DT     |          | Batch: 2405018 |
| Chloride                                       | 219                                            | 200    | 10          | 01/29/24    | 01/29/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                    |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/1/2024 4:15:27PM |

### FS20-1'

|                                                |        | E401203-06 |          |          |          |                |
|------------------------------------------------|--------|------------|----------|----------|----------|----------------|
|                                                |        | Reporting  |          |          |          |                |
| Analyte                                        | Result | Limit      | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg      | Anal     | yst: BA  |          | Batch: 2405015 |
| Benzene                                        | ND     | 0.0250     | 1        | 01/29/24 | 01/29/24 |                |
| Ethylbenzene                                   | ND     | 0.0250     | 1        | 01/29/24 | 01/29/24 |                |
| Toluene                                        | ND     | 0.0250     | 1        | 01/29/24 | 01/29/24 |                |
| o-Xylene                                       | ND     | 0.0250     | 1        | 01/29/24 | 01/29/24 |                |
| p,m-Xylene                                     | ND     | 0.0500     | 1        | 01/29/24 | 01/29/24 |                |
| Total Xylenes                                  | ND     | 0.0250     | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 99.9 %     | 70-130   | 01/29/24 | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg      | Anal     | yst: BA  |          | Batch: 2405015 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0       | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 91.5 %     | 70-130   | 01/29/24 | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg      | Anal     | yst: KM  |          | Batch: 2405017 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0       | 1        | 01/29/24 | 01/30/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0       | 1        | 01/29/24 | 01/30/24 |                |
| Surrogate: n-Nonane                            |        | 99.8 %     | 50-200   | 01/29/24 | 01/30/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg      | Anal     | yst: DT  |          | Batch: 2405018 |
| Chloride                                       | 582    | 200        | 10       | 01/29/24 | 01/29/24 | ·              |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                    |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/1/2024 4:15:27PM |

#### FS22-1'

#### E401203-07

|                                                |                                     | Reporting |          |                |          |                |
|------------------------------------------------|-------------------------------------|-----------|----------|----------------|----------|----------------|
| Analyte                                        | Result                              | Limit     | Dilution | Prepared       | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | y EPA 8021B mg/kg mg/kg Analyst: BA |           |          | Batch: 2405015 |          |                |
| Benzene                                        | ND                                  | 0.0250    | 1        | 01/29/24       | 01/29/24 |                |
| Ethylbenzene                                   | ND                                  | 0.0250    | 1        | 01/29/24       | 01/29/24 |                |
| Toluene                                        | ND                                  | 0.0250    | 1        | 01/29/24       | 01/29/24 |                |
| o-Xylene                                       | ND                                  | 0.0250    | 1        | 01/29/24       | 01/29/24 |                |
| p,m-Xylene                                     | ND                                  | 0.0500    | 1        | 01/29/24       | 01/29/24 |                |
| Total Xylenes                                  | ND                                  | 0.0250    | 1        | 01/29/24       | 01/29/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |                                     | 99.4 %    | 70-130   | 01/29/24       | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     |                                     | mg/kg     | Ana      | Analyst: BA    |          | Batch: 2405015 |
| Gasoline Range Organics (C6-C10)               | ND                                  | 20.0      | 1        | 01/29/24       | 01/29/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |                                     | 91.9 %    | 70-130   | 01/29/24       | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO |                                     | mg/kg     | Ana      | Analyst: KM    |          | Batch: 2405017 |
| Diesel Range Organics (C10-C28)                | ND                                  | 25.0      | 1        | 01/29/24       | 01/30/24 |                |
| Oil Range Organics (C28-C36)                   | ND                                  | 50.0      | 1        | 01/29/24       | 01/30/24 |                |
| Surrogate: n-Nonane                            |                                     | 91.7 %    | 50-200   | 01/29/24       | 01/30/24 |                |
| Anions by EPA 300.0/9056A                      |                                     | mg/kg     | Anal     | lyst: DT       |          | Batch: 2405018 |
| Chloride                                       | 227                                 | 200       | 10       | 01/29/24       | 01/29/24 | •              |



## **Sample Data**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                    |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/1/2024 4:15:27PM |

#### FS28-1'

|                                                |        | E401203-08 |          |          |          |                |
|------------------------------------------------|--------|------------|----------|----------|----------|----------------|
|                                                |        | Reporting  |          |          |          |                |
| Analyte                                        | Result | Limit      | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg      | Analy    | st: BA   |          | Batch: 2405015 |
| Benzene                                        | ND     | 0.0250     | 1        | 01/29/24 | 01/29/24 |                |
| Ethylbenzene                                   | ND     | 0.0250     | 1        | 01/29/24 | 01/29/24 |                |
| Toluene                                        | ND     | 0.0250     | 1        | 01/29/24 | 01/29/24 |                |
| o-Xylene                                       | ND     | 0.0250     | 1        | 01/29/24 | 01/29/24 |                |
| p,m-Xylene                                     | ND     | 0.0500     | 1        | 01/29/24 | 01/29/24 |                |
| Total Xylenes                                  | ND     | 0.0250     | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 99.0 %     | 70-130   | 01/29/24 | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg      | Analy    | st: BA   |          | Batch: 2405015 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0       | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 90.5 %     | 70-130   | 01/29/24 | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg      | Analy    | st: KM   |          | Batch: 2405017 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0       | 1        | 01/29/24 | 01/30/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0       | 1        | 01/29/24 | 01/30/24 |                |
| Surrogate: n-Nonane                            |        | 87.7 %     | 50-200   | 01/29/24 | 01/30/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg      | Analy    | st: DT   |          | Batch: 2405018 |
| Chloride                                       | 555    | 200        | 10       | 01/29/24 | 01/29/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                    |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/1/2024 4:15:27PM |

### FS15-1.5' E401203-09

| Analyte                                        | Result | Reporting<br>Limit | Dilution | Prepared | Analyzed | Notes          |
|------------------------------------------------|--------|--------------------|----------|----------|----------|----------------|
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg              | Analys   | t: BA    |          | Batch: 2405015 |
| Benzene                                        | ND     | 0.0250             | 1        | 01/29/24 | 01/29/24 |                |
| Ethylbenzene                                   | ND     | 0.0250             | 1        | 01/29/24 | 01/29/24 |                |
| Toluene                                        | ND     | 0.0250             | 1        | 01/29/24 | 01/29/24 |                |
| o-Xylene                                       | ND     | 0.0250             | 1        | 01/29/24 | 01/29/24 |                |
| p,m-Xylene                                     | ND     | 0.0500             | 1        | 01/29/24 | 01/29/24 |                |
| Total Xylenes                                  | ND     | 0.0250             | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 98.8 %             | 70-130   | 01/29/24 | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg              | Analys   | t: BA    |          | Batch: 2405015 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0               | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 91.7 %             | 70-130   | 01/29/24 | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg              | Analys   | t: KM    |          | Batch: 2405017 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0               | 1        | 01/29/24 | 01/30/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0               | 1        | 01/29/24 | 01/30/24 |                |
| Surrogate: n-Nonane                            |        | 90.2 %             | 50-200   | 01/29/24 | 01/30/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg              | Analys   | t: DT    |          | Batch: 2405018 |
| Chloride                                       | 533    | 200                | 10       | 01/29/24 | 01/29/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                    |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/1/2024 4:15:27PM |

### FS19-1.5' E401203-10

| Analyte                                        | Result | Reporting<br>Limit | Dilution | Prepared | Analyzed | Notes          |
|------------------------------------------------|--------|--------------------|----------|----------|----------|----------------|
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg              | Analys   | st: BA   |          | Batch: 2405015 |
| Benzene                                        | ND     | 0.0250             | 1        | 01/29/24 | 01/29/24 |                |
| Ethylbenzene                                   | ND     | 0.0250             | 1        | 01/29/24 | 01/29/24 |                |
| Toluene                                        | ND     | 0.0250             | 1        | 01/29/24 | 01/29/24 |                |
| o-Xylene                                       | ND     | 0.0250             | 1        | 01/29/24 | 01/29/24 |                |
| p,m-Xylene                                     | ND     | 0.0500             | 1        | 01/29/24 | 01/29/24 |                |
| Total Xylenes                                  | ND     | 0.0250             | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 98.8 %             | 70-130   | 01/29/24 | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg              | Analys   | st: BA   |          | Batch: 2405015 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0               | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 92.5 %             | 70-130   | 01/29/24 | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg              | Analys   | st: KM   |          | Batch: 2405017 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0               | 1        | 01/29/24 | 01/30/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0               | 1        | 01/29/24 | 01/30/24 |                |
| Surrogate: n-Nonane                            |        | 86.9 %             | 50-200   | 01/29/24 | 01/30/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg              | Analys   | st: DT   |          | Batch: 2405018 |
| Chloride                                       | 515    | 200                | 10       | 01/29/24 | 01/29/24 |                |



## **Sample Data**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                    |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/1/2024 4:15:27PM |

#### FS21-2'

|                                                |        | E401203-11 |          |          |          |                |
|------------------------------------------------|--------|------------|----------|----------|----------|----------------|
|                                                |        | Reporting  |          |          |          |                |
| Analyte                                        | Result | Limit      | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg      | Analys   | st: BA   |          | Batch: 2405015 |
| Benzene                                        | ND     | 0.0250     | 1        | 01/29/24 | 01/29/24 |                |
| Ethylbenzene                                   | ND     | 0.0250     | 1        | 01/29/24 | 01/29/24 |                |
| Toluene                                        | ND     | 0.0250     | 1        | 01/29/24 | 01/29/24 |                |
| o-Xylene                                       | ND     | 0.0250     | 1        | 01/29/24 | 01/29/24 |                |
| p,m-Xylene                                     | ND     | 0.0500     | 1        | 01/29/24 | 01/29/24 |                |
| Total Xylenes                                  | ND     | 0.0250     | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 98.2 %     | 70-130   | 01/29/24 | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg      | Analys   | st: BA   |          | Batch: 2405015 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0       | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 92.0 %     | 70-130   | 01/29/24 | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg      | Analys   | t: KM    |          | Batch: 2405017 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0       | 1        | 01/29/24 | 01/30/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0       | 1        | 01/29/24 | 01/30/24 |                |
| Surrogate: n-Nonane                            |        | 99.4 %     | 50-200   | 01/29/24 | 01/30/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg      | Analys   | st: DT   |          | Batch: 2405018 |
| Chloride                                       | 285    | 200        | 10       | 01/29/24 | 01/29/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                    |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/1/2024 4:15:27PM |

#### FS23-2'

#### E401203-12

|                                                |        | Reporting |          |          |          |                |
|------------------------------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                                        | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg     | Analy    | rst: BA  |          | Batch: 2405015 |
| Benzene                                        | ND     | 0.0250    | 1        | 01/29/24 | 01/29/24 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1        | 01/29/24 | 01/29/24 |                |
| Toluene                                        | ND     | 0.0250    | 1        | 01/29/24 | 01/29/24 |                |
| o-Xylene                                       | ND     | 0.0250    | 1        | 01/29/24 | 01/29/24 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1        | 01/29/24 | 01/29/24 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 95.9 %    | 70-130   | 01/29/24 | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | Analy    | rst: BA  |          | Batch: 2405015 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1        | 01/29/24 | 01/29/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 91.5 %    | 70-130   | 01/29/24 | 01/29/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | Analy    | st: KM   |          | Batch: 2405017 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1        | 01/29/24 | 01/30/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1        | 01/29/24 | 01/30/24 |                |
| Surrogate: n-Nonane                            |        | 92.0 %    | 50-200   | 01/29/24 | 01/30/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | Analy    | rst: DT  |          | Batch: 2405018 |
| Chloride                                       | 272    | 200       | 10       | 01/29/24 | 01/29/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                    |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/1/2024 4:15:27PM |

#### FS27-2'

#### E401203-13

|                                                |        | Reporting |          |          |          |                |
|------------------------------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                                        | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg     | Analy    | st: BA   |          | Batch: 2405015 |
| Benzene                                        | ND     | 0.0250    | 1        | 01/29/24 | 01/30/24 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1        | 01/29/24 | 01/30/24 |                |
| Toluene                                        | ND     | 0.0250    | 1        | 01/29/24 | 01/30/24 |                |
| o-Xylene                                       | ND     | 0.0250    | 1        | 01/29/24 | 01/30/24 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1        | 01/29/24 | 01/30/24 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1        | 01/29/24 | 01/30/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 95.1 %    | 70-130   | 01/29/24 | 01/30/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | Analy    | st: BA   |          | Batch: 2405015 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1        | 01/29/24 | 01/30/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 91.4 %    | 70-130   | 01/29/24 | 01/30/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | Analy    | st: KM   |          | Batch: 2405017 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1        | 01/29/24 | 01/30/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1        | 01/29/24 | 01/30/24 |                |
| Surrogate: n-Nonane                            |        | 93.4 %    | 50-200   | 01/29/24 | 01/30/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | Analy    | st: DT   |          | Batch: 2405018 |
| · · · · · · · · · · · · · · · · · · ·          | 349    | 200       | 10       | 01/29/24 | 01/29/24 | ·              |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                    |
|------------------------------|------------------|--------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 2/1/2024 4:15:27PM |

### FS33-1.5' E401203-14

|        | 1.401205 14                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Result | Reporting<br>Limit                                 | Dilution                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Prepared                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Analyzed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| mg/kg  | mg/kg                                              | Anal                                                                                                                                                                                                                                                                                                                                                                                                                                                            | lyst: BA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Batch: 2405015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ND     | 0.0250                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 01/30/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0250                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 01/30/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0250                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 01/30/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0250                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 01/30/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0500                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 01/30/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0250                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 01/30/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | 94.6 %                                             | 70-130                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 01/30/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| mg/kg  | mg/kg                                              | Anal                                                                                                                                                                                                                                                                                                                                                                                                                                                            | lyst: BA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Batch: 2405015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ND     | 20.0                                               | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 01/30/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | 93.0 %                                             | 70-130                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 01/30/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| mg/kg  | mg/kg                                              | Anal                                                                                                                                                                                                                                                                                                                                                                                                                                                            | lyst: KM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Batch: 2405017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ND     | 25.0                                               | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 01/30/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 50.0                                               | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 01/30/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | 95.1 %                                             | 50-200                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 01/30/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| mg/kg  | mg/kg                                              | Anal                                                                                                                                                                                                                                                                                                                                                                                                                                                            | lyst: DT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Batch: 2405018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 209    | 100                                                | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 01/29/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | mg/kg ND Mg/kg ND mg/kg | Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         0.0250           94.6 %         mg/kg           MD         20.0           93.0 %         mg/kg           ND         25.0           ND         50.0           95.1 %         mg/kg           mg/kg         mg/kg | mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           94.6%         70-130           mg/kg         mg/kg         Anal           ND         20.0         1           93.0%         70-130         1           mg/kg         mg/kg         Anal           ND         25.0         1           ND         50.0         1           95.1%         50-200           mg/kg         mg/kg         Anal | Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         01/29/24           ND         0.0250         1         01/29/24           ND         0.0250         1         01/29/24           ND         0.0250         1         01/29/24           ND         0.0500         1         01/29/24           ND         0.0250         1         01/29/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         01/29/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         01/29/24           ND         25.0         1         01/29/24           ND         50.0         1         01/29/24           ND         50.0         1         01/29/24           ND         50.0         01/29/24           Mg/kg         mg/kg         Analyst: DT | Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         01/29/24         01/30/24           ND         0.0250         1         01/29/24         01/30/24           ND         0.0250         1         01/29/24         01/30/24           ND         0.0500         1         01/29/24         01/30/24           ND         0.0250         1         01/29/24         01/30/24           ND         0.0250         1         01/29/24         01/30/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         01/29/24         01/30/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         01/29/24         01/30/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         01/29/24         01/30/24           ND         50.0         1         01/29/24         01/30/24           ND         50.0         1         01/29/24         01/30/24           ND         50.0         < |



## **QC Summary Data**

|                                                         |        |                                  |                | J                            |      |               |     |              |                    |
|---------------------------------------------------------|--------|----------------------------------|----------------|------------------------------|------|---------------|-----|--------------|--------------------|
| Matador Resources, LLC.<br>5400 LBJ Freeway, Suite 1500 |        | Project Name:<br>Project Number: |                | Charlie Sweene<br>23052-0001 | у ТВ |               |     |              | Reported:          |
| Dallas TX, 75240                                        |        | Project Manager                  |                | Ashley Gioveng               | go   |               |     |              | 2/1/2024 4:15:27PM |
|                                                         |        | Volatile C                       | Organic        | s by EPA 802                 | 21B  |               |     |              | Analyst: BA        |
| Analyte                                                 | Result | Reporting<br>Limit               | Spike<br>Level | Source<br>Result             | Rec  | Rec<br>Limits | RPD | RPD<br>Limit |                    |

|                                     |        |                    | 0              | •                |          |               |             |              | <i>j</i>        |
|-------------------------------------|--------|--------------------|----------------|------------------|----------|---------------|-------------|--------------|-----------------|
| Analyte                             | Result | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec      | Rec<br>Limits | RPD         | RPD<br>Limit |                 |
|                                     | mg/kg  | mg/kg              | mg/kg          | mg/kg            | %        | %             | %           | %            | Notes           |
| Blank (2405015-BLK1)                |        |                    |                |                  |          |               | Prepared: 0 | 1/29/24 Anal | lyzed: 01/29/24 |
| Benzene                             | ND     | 0.0250             |                |                  |          |               |             |              |                 |
| Ethylbenzene                        | ND     | 0.0250             |                |                  |          |               |             |              |                 |
| Toluene                             | ND     | 0.0250             |                |                  |          |               |             |              |                 |
| o-Xylene                            | ND     | 0.0250             |                |                  |          |               |             |              |                 |
| p,m-Xylene                          | ND     | 0.0500             |                |                  |          |               |             |              |                 |
| Total Xylenes                       | ND     | 0.0250             |                |                  |          |               |             |              |                 |
| Surrogate: 4-Bromochlorobenzene-PID | 7.75   |                    | 8.00           |                  | 96.9     | 70-130        |             |              |                 |
| LCS (2405015-BS1)                   |        |                    |                |                  |          |               | Prepared: 0 | 1/29/24 Anal | lyzed: 01/29/24 |
| Benzene                             | 3.84   | 0.0250             | 5.00           |                  | 76.8     | 70-130        |             |              |                 |
| Ethylbenzene                        | 3.74   | 0.0250             | 5.00           |                  | 74.8     | 70-130        |             |              |                 |
| Toluene                             | 3.87   | 0.0250             | 5.00           |                  | 77.4     | 70-130        |             |              |                 |
| o-Xylene                            | 3.83   | 0.0250             | 5.00           |                  | 76.5     | 70-130        |             |              |                 |
| p,m-Xylene                          | 7.74   | 0.0500             | 10.0           |                  | 77.4     | 70-130        |             |              |                 |
| Total Xylenes                       | 11.6   | 0.0250             | 15.0           |                  | 77.1     | 70-130        |             |              |                 |
| Surrogate: 4-Bromochlorobenzene-PID | 7.83   |                    | 8.00           |                  | 97.9     | 70-130        |             |              |                 |
| Matrix Spike (2405015-MS1)          |        |                    |                | Source:          | E401203- | 08            | Prepared: 0 | 1/29/24 Anal | lyzed: 01/29/24 |
| Benzene                             | 4.57   | 0.0250             | 5.00           | ND               | 91.4     | 54-133        |             |              |                 |
| Ethylbenzene                        | 4.46   | 0.0250             | 5.00           | ND               | 89.1     | 61-133        |             |              |                 |
| Toluene                             | 4.61   | 0.0250             | 5.00           | ND               | 92.1     | 61-130        |             |              |                 |
| o-Xylene                            | 4.58   | 0.0250             | 5.00           | ND               | 91.6     | 63-131        |             |              |                 |
| p,m-Xylene                          | 9.21   | 0.0500             | 10.0           | ND               | 92.1     | 63-131        |             |              |                 |
| Total Xylenes                       | 13.8   | 0.0250             | 15.0           | ND               | 92.0     | 63-131        |             |              |                 |
| Surrogate: 4-Bromochlorobenzene-PID | 8.02   |                    | 8.00           |                  | 100      | 70-130        |             |              |                 |
| Matrix Spike Dup (2405015-MSD1)     |        |                    |                | Source:          | E401203- | 08            | Prepared: 0 | 1/29/24 Anal | lyzed: 01/29/24 |
| Benzene                             | 4.10   | 0.0250             | 5.00           | ND               | 82.0     | 54-133        | 10.9        | 20           |                 |
| Ethylbenzene                        | 3.98   | 0.0250             | 5.00           | ND               | 79.7     | 61-133        | 11.2        | 20           |                 |
| Toluene                             | 4.13   | 0.0250             | 5.00           | ND               | 82.6     | 61-130        | 10.9        | 20           |                 |
| o-Xylene                            | 4.11   | 0.0250             | 5.00           | ND               | 82.2     | 63-131        | 10.7        | 20           |                 |
| p,m-Xylene                          | 8.24   | 0.0500             | 10.0           | ND               | 82.4     | 63-131        | 11.1        | 20           |                 |
| Total Xylenes                       | 12.4   | 0.0250             | 15.0           | ND               | 82.4     | 63-131        | 11.0        | 20           |                 |
| Surrogate: 4-Bromochlorobenzene-PID | 8.09   |                    | 8.00           |                  | 101      | 70-130        |             |              |                 |
| ~                                   |        |                    |                |                  |          |               |             |              |                 |

Gasoline Range Organics (C6-C10)

## **QC Summary Data**

Matador Resources, LLC.Project Name:Charlie Sweeney TBReported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo2/1/2024 4:15:27PM

|                                         | Non             | halogenated                 | Organics l              | oy EPA 801                | 15D - G  | RO                 |             | 1                 | Analyst: BA    |
|-----------------------------------------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|-------------|-------------------|----------------|
| Analyte                                 | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>%    | RPD<br>Limit<br>% | Notes          |
| Blank (2405015-BLK1)                    |                 |                             |                         |                           |          |                    | Prepared: 0 | 1/29/24 Analy     | /zed: 01/29/24 |
| Gasoline Range Organics (C6-C10)        | ND              | 20.0                        |                         |                           |          |                    |             |                   |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.25            |                             | 8.00                    |                           | 90.6     | 70-130             |             |                   |                |
| LCS (2405015-BS2)                       |                 |                             |                         |                           |          |                    | Prepared: 0 | 1/29/24 Analy     | zed: 01/30/24  |
| Gasoline Range Organics (C6-C10)        | 40.3            | 20.0                        | 50.0                    |                           | 80.7     | 70-130             |             |                   |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.47            |                             | 8.00                    |                           | 93.4     | 70-130             |             |                   |                |
| Matrix Spike (2405015-MS2)              |                 |                             |                         | Source:                   | E401203- | 08                 | Prepared: 0 | 1/29/24 Analy     | zed: 01/29/24  |

| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.32 |      | 8.00 |         | 91.6      | 70-130 |              |                   |          |
|-----------------------------------------|------|------|------|---------|-----------|--------|--------------|-------------------|----------|
| Matrix Spike Dup (2405015-MSD2)         |      |      |      | Source: | E401203-0 | 08     | Prepared: 01 | 1/29/24 Analyzed: | 01/29/24 |
| Gasoline Range Organics (C6-C10)        | 37.0 | 20.0 | 50.0 | ND      | 74.0      | 70-130 | 3.58         | 20                |          |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.33 |      | 8.00 |         | 91.6      | 70-130 |              |                   |          |

70-130

20.0

## **QC Summary Data**

Matador Resources, LLC.Project Name:Charlie Sweeney TBReported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo2/1/2024 4:15:27PM

| Dullus 171, 752 10              |        | ,                  |                |                  |           |               |             |              |                |
|---------------------------------|--------|--------------------|----------------|------------------|-----------|---------------|-------------|--------------|----------------|
|                                 | Nonha  | logenated Or       | ganics by      | EPA 8015I        | ) - DRO   | /ORO          |             |              | Analyst: KM    |
| Analyte                         | Result | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec       | Rec<br>Limits | RPD         | RPD<br>Limit |                |
|                                 | mg/kg  | mg/kg              | mg/kg          | mg/kg            | %         | %             | %           | %            | Notes          |
| Blank (2405017-BLK1)            |        |                    |                |                  |           |               | Prepared: 0 | 1/29/24 Anal | yzed: 01/29/24 |
| Diesel Range Organics (C10-C28) | ND     | 25.0               |                |                  |           |               |             |              |                |
| Oil Range Organics (C28-C36)    | ND     | 50.0               |                |                  |           |               |             |              |                |
| Surrogate: n-Nonane             | 50.5   |                    | 50.0           |                  | 101       | 50-200        |             |              |                |
| LCS (2405017-BS1)               |        |                    |                |                  |           |               | Prepared: 0 | 1/29/24 Anal | yzed: 01/29/24 |
| Diesel Range Organics (C10-C28) | 216    | 25.0               | 250            |                  | 86.3      | 38-132        |             |              |                |
| Surrogate: n-Nonane             | 47.8   |                    | 50.0           |                  | 95.5      | 50-200        |             |              |                |
| Matrix Spike (2405017-MS1)      |        |                    |                | Source:          | E401186-0 | 05            | Prepared: 0 | 1/29/24 Anal | yzed: 01/29/24 |
| Diesel Range Organics (C10-C28) | 212    | 25.0               | 250            | ND               | 84.7      | 38-132        |             |              |                |
| Surrogate: n-Nonane             | 52.4   |                    | 50.0           |                  | 105       | 50-200        |             |              |                |
| Matrix Spike Dup (2405017-MSD1) |        |                    |                | Source:          | E401186-0 | 05            | Prepared: 0 | 1/29/24 Anal | yzed: 01/29/24 |
| Diesel Range Organics (C10-C28) | 204    | 25.0               | 250            | ND               | 81.7      | 38-132        | 3.61        | 20           |                |
| Surrogate: n-Nonane             | 52.7   |                    | 50.0           |                  | 105       | 50-200        |             |              |                |

Matrix Spike Dup (2405018-MSD1)

Chloride

668

## **QC Summary Data**

| Matador Resources, LLC.<br>5400 LBJ Freeway, Suite 1500<br>Dallas TX, 75240 |        | Project Name: Project Number Project Manage | : 2                     | Charlie Sweene<br>23052-0001<br>Ashley Giovens | •        |               | Reported: 2/1/2024 4:15:27PM |                   |                   |  |
|-----------------------------------------------------------------------------|--------|---------------------------------------------|-------------------------|------------------------------------------------|----------|---------------|------------------------------|-------------------|-------------------|--|
| 24140 11, 702.10                                                            |        |                                             |                         | 300.0/9056                                     |          |               |                              |                   | Analyst: DT       |  |
| Analyte                                                                     | Result | Reporting<br>Limit<br>mg/kg                 | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg                      | Rec<br>% | Rec<br>Limits | RPD<br>%                     | RPD<br>Limit<br>% | Notes             |  |
| Blank (2405018-BLK1)                                                        |        |                                             |                         |                                                |          |               | Prepared: 0                  | 1/29/24 Aı        | nalyzed: 01/29/24 |  |
| Chloride                                                                    | ND     | 20.0                                        |                         |                                                |          |               |                              |                   |                   |  |
| LCS (2405018-BS1)                                                           |        |                                             |                         |                                                |          |               | Prepared: 0                  | 1/29/24 Aı        | nalyzed: 01/29/24 |  |
| Chloride                                                                    | 254    | 20.0                                        | 250                     |                                                | 102      | 90-110        |                              |                   |                   |  |
| Matrix Spike (2405018-MS1)                                                  |        |                                             |                         | Source:                                        | E401203- | 03            | Prepared: 0                  | 1/29/24 Aı        | nalyzed: 01/29/24 |  |
| Chloride                                                                    | 665    | 200                                         | 250                     | 381                                            | 113      | 80-120        |                              |                   |                   |  |

250

200

Source: E401203-03

115

80-120

0.428

381

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Prepared: 01/29/24 Analyzed: 01/29/24

20

## **Definitions and Notes**

| l | Matador Resources, LLC.      | Project Name:    | Charlie Sweeney TB |                |
|---|------------------------------|------------------|--------------------|----------------|
| l | 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001         | Reported:      |
| l | Dallas TX, 75240             | Project Manager: | Ashley Giovengo    | 02/01/24 16:15 |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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| Client: N       | Matador Prod         | duction C    | Company              |                          | Bill                   | То                               |                    |          | Lab          | Use C       | nly            |           | Г         | _       | TA        | AT            |              | EPA P                     | rogram       |
|-----------------|----------------------|--------------|----------------------|--------------------------|------------------------|----------------------------------|--------------------|----------|--------------|-------------|----------------|-----------|-----------|---------|-----------|---------------|--------------|---------------------------|--------------|
|                 | Charlie Swee         |              |                      |                          | Attention: Matador F   | tion: Matador Production Company |                    |          |              | Jol         | Num            | ber       | 1D        | 2D      | 3D        | Standa        | ard          | CWA                       | SDW          |
| Project N       | Manager: As          | hley Giov    | vengo                |                          | Address: on file       |                                  | E 40               | 12       | 03           | 23          | 605            | 2-0001    |           |         |           | х             |              |                           |              |
| Address:        | : 3122 Natio         | nal Parks    | Hwy                  |                          | City, State, Zip:      |                                  |                    |          |              | Ana         | lysis a        | nd Metho  | d         |         |           |               | -            |                           | RCR          |
|                 | te, Zip: Carls       |              | 88220                |                          | Phone: (337)319-8398   |                                  | þ.                 |          |              |             |                |           |           |         |           |               |              |                           |              |
|                 | 575-988-005          |              |                      |                          | Email: clinton.talley@ | matadorresources.com             | ORC 1              |          |              |             |                |           |           |         |           |               | 11           | State                     |              |
|                 | giovengo@e           | nsolum.d     | com                  |                          |                        |                                  | DRO,               |          | 121          | 3 9         | 0.00           |           | ΣZ        |         | ×         | NM            | co           | UT AZ                     | TX           |
| Report d        | lue by:              |              |                      |                          |                        | Link                             | RO/I               |          | 98 kg        | s 60.       | de 3           | TPH       | 2         | 1       |           | ×             |              |                           |              |
| Time<br>Sampled | Date Sampled         | Matrix       | No. of<br>Containers | Sample ID                |                        | Lab<br>Number                    | TPH GRO/DRO/ORO by | 8015     | BTEX by 8021 | Metals 6010 | Chloride 300.0 | тсео трн  | BGDOC     |         | GDOC      |               |              | Remarks                   |              |
| 10:38           | 1/26/2024            | Soil         | 1                    |                          | FS10 - 1'              | 1                                |                    |          |              |             |                |           | x         |         |           |               |              |                           |              |
| 10:31           | 1/26/2024            | Soil         | 1                    |                          | FS11 - 1'              | 2                                |                    |          |              |             |                |           | х         |         |           |               |              |                           |              |
| 10:36           | 1/26/2024            | Soil         | 1                    |                          | FS12 - 1'              | 3                                |                    |          |              |             |                |           | х         |         |           | Plea          | ase 1 day ru | sh the chloride<br>sample | es only on t |
| 10:30           | 1/26/2024            | Soil         | 1                    |                          | FS13 - 1'              | 4                                |                    |          |              |             |                |           | х         |         |           |               |              |                           |              |
| 10:24           | 1/26/2024            | Soil         | 1                    |                          | FS14 - 1'              | 5                                |                    |          |              |             |                |           | х         |         |           |               |              |                           |              |
| 10:16           | 1/26/2024            | Soil         | 1                    |                          | FS20 - 1'              | 6                                |                    |          |              |             |                |           | х         |         |           | Plea          | ase 1 day ru | sh the chloride<br>sample | es only on   |
| 10:20           | 1/26/2024            | Soil         | 1                    |                          | FS22 - 1'              | 7                                |                    |          |              |             |                |           | x         |         |           |               |              |                           |              |
| 10:14           | 1/26/2024            | Soil         | 1                    |                          | FS28 - 1'              | 8                                |                    |          |              |             |                |           | х         |         |           | Plea          | ase 1 day ru | sh the chloride<br>sample | es only on   |
| 14:19           | 1/26/2024            | Soil         | 1                    |                          | FS15 - 1.5'            | 9                                |                    |          |              |             |                |           | х         |         |           | Plea          | ase 1 day n. | sh the chlorid<br>sample  | es only on   |
| 14:23           | 1/26/2024            | Soil         | 1                    |                          | FS19 - 1.5             | 10                               |                    |          |              |             |                |           | x         |         |           | Plea          | ase 1 day n. | sh the chlorid            | es only on   |
| field samp      | oler), attest to the | validity and | d authentic          | ity of this sample. I ar | m.com, agiovengo@ensol | entionally mislabelling the samp |                    |          | m, eh        | Sam         | oles requ      | um.com,   | preserv   | ation m | ust be re | ceived on ice | the day th   |                           | led or       |
| linguishe       | ed by: (Signature    | e)           | Date                 | 26-24 Time               | Received by: (Signatu  | 1.26                             |                    | me<br>17 | 141          | Re          | ceive          | d on ice: | (         | ab U    | se On     | ly            |              |                           |              |
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| linquishe       | ed by: Signature     | e)           | Date                 | Time                     | Received by: (Signatu  | re) Date                         | Tir                | me       |              | AV          | G Ter          | np °C     | 4         |         |           |               |              |                           |              |





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| Client:         | Matador Pro                                  | duction C      | Company              |               |           | Bill To                                                                    |                    |        |                            | La        | b U    | se Or       | nly            |          |       |       |        | TA         | \T                                         | EPA           | rogram    |
|-----------------|----------------------------------------------|----------------|----------------------|---------------|-----------|----------------------------------------------------------------------------|--------------------|--------|----------------------------|-----------|--------|-------------|----------------|----------|-------|-------|--------|------------|--------------------------------------------|---------------|-----------|
| Project:        | Charlie Swe                                  | eney Fed       | ТВ                   |               |           | Attention: Matador Production                                              | on Company         | Lal    | o WO#                      | #         | 77     | Job         |                | ber      |       | 1D    | 2D     | 3D         | Standard                                   | CWA           | SDWA      |
| Project         | Manager: As                                  | hley Giov      | /engo                |               |           | Address: on file                                                           |                    | E      | 401                        | 203       | 3      | 230         | 557            | 1-00     | Id    |       |        |            | X                                          |               |           |
| Address         | : 3122 Natio                                 | nal Parks      | Hwy                  |               |           | City, State, Zip:                                                          |                    |        |                            |           |        |             |                | nd Me    |       | d     |        |            |                                            | SY            | RCRA      |
| City, Sta       | te, Zip: Carls                               | bad NM,        | 88220                |               |           | Phone: (337)319-8398                                                       |                    |        | by                         |           |        |             |                | -        |       |       |        |            |                                            |               |           |
| Phone:          | 575-988-005                                  | 5              |                      |               |           | Email: clinton.talley@matado                                               | rresources.con     | -      | SRO<br>SRO                 |           |        |             |                |          |       |       |        |            |                                            | State         |           |
| Email: a        | agiovengo@e                                  | nsolum.c       | com                  |               |           |                                                                            |                    | 1      | 30/0                       | н         | -      |             | 0.0            |          |       | Σ×    |        |            | NM C                                       | UT AZ         | Z TX      |
| Report o        | due by:                                      |                |                      |               |           |                                                                            |                    |        | J/DR                       | 8021      | 8260   | 0109        | 300            | I        |       | 200   |        | ¥          | ×                                          |               |           |
| Time<br>Sampled | Date Sampled                                 | Matrix         | No. of<br>Containers | Sample II     | )         |                                                                            | Lab<br>Number      |        | TPH GRO/DRO/ORO by<br>8015 | BTEX by 8 | VOC by | Metals 6010 | Chloride 300.0 | тсед трн |       | BGDOC |        | GDOC       |                                            | Remark        | s         |
| 15:18           | 1/26/2024                                    | Soil           | 1                    |               |           | FS21 - 2'                                                                  | -11                |        |                            |           |        |             |                |          |       | х     |        |            |                                            |               |           |
| 15:17           | 1/26/2024                                    | Soil           | 1                    |               |           | FS23 - 2'                                                                  | 12                 |        |                            |           |        |             |                |          |       | х     |        |            |                                            |               |           |
| 15:22           | 1/26/2024                                    | Soil           | 1                    |               |           | FS27 - 2'                                                                  | 13                 |        |                            |           |        |             |                |          |       | х     |        |            |                                            |               |           |
| 15:25           | 1/26/2024                                    | Soil           | 1                    |               |           | FS33 - 1.5'                                                                | 14                 |        |                            |           |        |             |                |          |       | х     |        |            |                                            |               |           |
|                 |                                              |                |                      |               |           |                                                                            |                    |        |                            |           |        |             |                |          |       |       |        |            |                                            |               |           |
|                 |                                              |                |                      |               |           |                                                                            |                    |        |                            |           |        |             |                |          |       |       |        |            |                                            |               |           |
|                 | -                                            |                |                      |               |           |                                                                            |                    |        |                            |           |        |             |                |          |       |       |        |            |                                            |               |           |
|                 |                                              |                |                      |               |           |                                                                            |                    |        |                            |           |        |             |                |          |       |       |        |            |                                            |               |           |
|                 |                                              |                |                      |               |           |                                                                            |                    |        |                            |           |        |             |                |          |       |       | -      |            |                                            |               |           |
|                 |                                              |                |                      |               |           |                                                                            |                    |        |                            |           |        |             |                |          |       |       |        |            |                                            |               |           |
| Addition        | nal Instructio                               | ns: Plea       | ise CC: cb           | ourton@e      | nsolum.   | com, agiovengo@ensolum.com                                                 | n, chamilton@e     | nso    | lum.c                      | om,       | ehaf   | t@ei        | nsolu          | ım.co    | om, i | iestr | ella@  | ensc       | olum.com                                   |               |           |
|                 | pler), attest to the<br>e of collection is c |                |                      |               |           | ware that tampering with or intentionally materials.  Sampled by: Cole Bur |                    | le loc | ation,                     |           |        |             | 2000           | -        |       |       |        |            | ceived on ice the d<br>ess than 6 °C on su |               |           |
| Relinquish      | ed by: (Signatur                             | re)            | Date<br>) -          | 26-24         | Time 17 4 | Received by: (Signature)                                                   | Date 1.26          | 20     | Time                       | 79        | 1      | Rece        | eived          | l on i   | ce:   |       | ab Us  | se On<br>I | ly                                         |               |           |
| 1               | ed by: (Signatur                             | _              | Date /-2             | 28.24         | Time      | Received by: (Signature)                                                   | Date 1/29/2        |        |                            | 7:2       | 3      | T1          |                |          |       | T2    |        |            | <u></u>                                    |               |           |
| Retinquish      | ed by: Signatur                              | re)            | Date                 |               | Time      | Received by: (Signature)                                                   | Date               |        | Time                       |           |        | AVG         | Ten            | np °C    | 1     | 4     |        |            |                                            |               |           |
| Sample Mat      | trix: S - Soil, Sd - S                       | olid, Sg - Slu | dge, A - Aqu         | eous, O - Oth | er        |                                                                            | Containe           | r Tyr  | oe: g -                    | glass,    | p - p  |             |                |          |       | er gl | ass, v | - VOA      | 4                                          |               |           |
|                 |                                              |                |                      |               |           | other arrangements are made. Hazar                                         | rdous samples will | be r   | eturne                     | d to cl   | ient c | or disp     | osed           | of at t  |       |       |        |            |                                            | e analysis of | the above |



or disposed of at the client expense. The report for the analysis of the above on the report.

Continuous expense and the client expense are continuous expense

Printed: 1/30/2024 9:06:20AM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

| Client:          | Matador Resources, LLC.                                                                                                                                                                                | Date Received:               | 01/29/24 0 | 9.23             | Work Order ID: E401203                 |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------|------------------|----------------------------------------|
|                  |                                                                                                                                                                                                        |                              | 01/29/24 0 |                  |                                        |
| Phone:<br>Email: | (972) 371-5200<br>agiovngo@ensolum.com                                                                                                                                                                 | Date Logged In:<br>Due Date: |            | 7:00 (4 day TAT) | Logged In By: Angelina Pineda          |
| Ellian.          | agioviigo@ciisoidiii.coiii                                                                                                                                                                             | Due Date.                    | 02/02/24 1 | 7.00 (4 day 1A1) |                                        |
| Chain of         | Custody (COC)                                                                                                                                                                                          |                              |            |                  |                                        |
| 1. Does th       | e sample ID match the COC?                                                                                                                                                                             |                              | Yes        |                  |                                        |
|                  | e number of samples per sampling site location mat                                                                                                                                                     | ch the COC                   | Yes        |                  |                                        |
| 3. Were sa       | imples dropped off by client or carrier?                                                                                                                                                               |                              | Yes        | Carrier: C       | Courier                                |
| 4. Was the       | e COC complete, i.e., signatures, dates/times, reques                                                                                                                                                  | sted analyses?               | Yes        |                  |                                        |
|                  | l samples received within holding time?                                                                                                                                                                | •                            | Yes        |                  |                                        |
|                  | Note: Analysis, such as pH which should be conducted in                                                                                                                                                |                              |            |                  | Comments/Resolution                    |
| ~                | i.e, 15 minute hold time, are not included in this disucssion                                                                                                                                          | on.                          |            | ĺ                | Comments/Acsolution                    |
|                  | urn Around Time (TAT)                                                                                                                                                                                  |                              | ***        |                  | Samples -03/-06/-08/-09/-10 are 1-day  |
|                  | COC indicate standard TAT, or Expedited TAT?                                                                                                                                                           |                              | Yes        |                  | _                                      |
| Sample C         |                                                                                                                                                                                                        |                              | ***        |                  | rushed analysis for Chlorides only per |
|                  | ample cooler received?                                                                                                                                                                                 |                              | Yes        |                  | COC remarks from client.               |
| •                | was cooler received in good condition?                                                                                                                                                                 |                              | Yes        |                  |                                        |
|                  | e sample(s) received intact, i.e., not broken?                                                                                                                                                         |                              | Yes        |                  |                                        |
|                  | custody/security seals present?                                                                                                                                                                        |                              | No         |                  |                                        |
| 11. If yes,      | were custody/security seals intact?                                                                                                                                                                    |                              | NA         |                  |                                        |
|                  | e sample received on ice? If yes, the recorded temp is 4°C,<br>Note: Thermal preservation is not required, if samples are<br>minutes of sampling<br>risible ice, record the temperature. Actual sample | e received w/i 15            | Yes        |                  |                                        |
|                  |                                                                                                                                                                                                        | temperature. 1               | <u> </u>   |                  |                                        |
| Sample C         | ueous VOC samples present?                                                                                                                                                                             |                              | No         |                  |                                        |
|                  | OC samples collected in VOA Vials?                                                                                                                                                                     |                              | NA         |                  |                                        |
|                  | head space less than 6-8 mm (pea sized or less)?                                                                                                                                                       |                              | NA         |                  |                                        |
|                  | trip blank (TB) included for VOC analyses?                                                                                                                                                             |                              | NA         |                  |                                        |
|                  | on-VOC samples collected in the correct containers.                                                                                                                                                    | )                            | Yes        |                  |                                        |
|                  | appropriate volume/weight or number of sample contain                                                                                                                                                  |                              | Yes        |                  |                                        |
| Field Lab        |                                                                                                                                                                                                        | iers conceicu.               | 103        |                  |                                        |
|                  | field sample labels filled out with the minimum info                                                                                                                                                   | rmation:                     |            |                  |                                        |
|                  | ample ID?                                                                                                                                                                                              | imation.                     | Yes        |                  |                                        |
|                  | ate/Time Collected?                                                                                                                                                                                    |                              | Yes        |                  |                                        |
| Co               | ollectors name?                                                                                                                                                                                        |                              | Yes        |                  |                                        |
| Sample P         | <u>reservation</u>                                                                                                                                                                                     |                              |            |                  |                                        |
| 21. Does t       | the COC or field labels indicate the samples were pr                                                                                                                                                   | eserved?                     | No         |                  |                                        |
|                  | mple(s) correctly preserved?                                                                                                                                                                           |                              | NA         |                  |                                        |
| 24. Is lab       | filteration required and/or requested for dissolved m                                                                                                                                                  | netals?                      | No         |                  |                                        |
| Multipha         | se Sample Matrix                                                                                                                                                                                       |                              |            |                  |                                        |
| 26. Does t       | he sample have more than one phase, i.e., multipha                                                                                                                                                     | se?                          | No         |                  |                                        |
| 27. If yes,      | does the COC specify which phase(s) is to be analy                                                                                                                                                     | zed?                         | NA         |                  |                                        |
| Subcontra        | act Laboratory                                                                                                                                                                                         |                              |            |                  |                                        |
|                  | mples required to get sent to a subcontract laborator                                                                                                                                                  | ry?                          | No         |                  |                                        |
|                  | subcontract laboratory specified by the client and if                                                                                                                                                  | •                            |            | Subcontract Lab  | o: NA                                  |
|                  | struction                                                                                                                                                                                              |                              |            |                  |                                        |
| CHERTIN          | struction .                                                                                                                                                                                            |                              |            |                  |                                        |
|                  |                                                                                                                                                                                                        |                              |            |                  |                                        |
|                  |                                                                                                                                                                                                        |                              |            |                  |                                        |
|                  |                                                                                                                                                                                                        |                              |            |                  |                                        |
|                  |                                                                                                                                                                                                        |                              |            |                  |                                        |
|                  |                                                                                                                                                                                                        |                              |            |                  |                                        |
|                  |                                                                                                                                                                                                        |                              |            |                  |                                        |
|                  |                                                                                                                                                                                                        |                              |            |                  |                                        |
|                  |                                                                                                                                                                                                        |                              |            |                  |                                        |

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Charlie Sweeney Fed TB

Work Order: E401209

Job Number: 23052-0001

Received: 1/27/2024

Revision: 5

Report Reviewed By:

Walter Hinchman Laboratory Director 2/14/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/14/24

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Charlie Sweeney Fed TB

Workorder: E401209

Date Received: 1/27/2024 8:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/27/2024 8:30:00AM, under the Project Name: Charlie Sweeney Fed TB.

The analytical test results summarized in this report with the Project Name: Charlie Sweeney Fed TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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**Alexa Michaels** 

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Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com



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## Sample Summary

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB | Donoutoda      |
|------------------------------|------------------|------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:      |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 02/14/24 16:55 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| PH03 - 3'        | E401209-01A   | Soil   | 01/25/24 | 01/27/24 | Glass Jar, 2 oz. |
| PH03 - 4'        | E401209-02A   | Soil   | 01/25/24 | 01/27/24 | Glass Jar, 2 oz. |
| PH03 - 5'        | E401209-03A   | Soil   | 01/25/24 | 01/27/24 | Glass Jar, 2 oz. |
| PH03 - 6'        | E401209-04A   | Soil   | 01/25/24 | 01/27/24 | Glass Jar, 2 oz. |
| PH03 - 7'        | E401209-05A   | Soil   | 01/25/24 | 01/27/24 | Glass Jar, 2 oz. |
| PH03 - 8'        | E401209-06A   | Soil   | 01/25/24 | 01/27/24 | Glass Jar, 2 oz. |
| PH03 - 9'        | E401209-07A   | Soil   | 01/25/24 | 01/27/24 | Glass Jar, 2 oz. |
| PH03 - 10'       | E401209-08A   | Soil   | 01/25/24 | 01/27/24 | Glass Jar, 2 oz. |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/14/2024 4:55:10PM |

### PH03 - 3' E401209-01

|                                    |               | Reporting    |          |          |          |                |
|------------------------------------|---------------|--------------|----------|----------|----------|----------------|
| Analyte                            | Result        | Limit        | Dilution | Prepared | Analyzed | Notes          |
|                                    |               |              |          |          |          |                |
| Anions by EPA 300.0/9056A          | mg/kg         | mg/kg        | Analyst: | : DT     |          | Batch: 2405058 |
| Anions by EPA 300.0/9056A Chloride | mg/kg<br>1550 | mg/kg<br>200 | Analyst: | 01/31/24 | 02/01/24 | Batch: 2405058 |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/14/2024 4:55:10PM |

PH03 - 4'

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | RAS      |          | Batch: 2405058 |
| Chloride                  | 1150   | 200       | 10       | 01/31/24 | 02/01/24 |                |
| Sulfate                   | 19900  | 400       | 20       | 02/12/24 | 02/13/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/14/2024 4:55:10PM |

PH03 - 5'

|                                    |                      | Reporting    |          |          |          |                |  |
|------------------------------------|----------------------|--------------|----------|----------|----------|----------------|--|
| Analyte                            | Result               | Limit        | Dilution | Prepared | Analyzed | Notes          |  |
|                                    |                      |              |          |          |          |                |  |
| Anions by EPA 300.0/9056A          | mg/kg                | mg/kg        | Analyst: | : DT     |          | Batch: 2405058 |  |
| Anions by EPA 300.0/9056A Chloride | mg/kg<br><b>2630</b> | mg/kg<br>200 | Analyst: | 01/31/24 | 02/01/24 | Batch: 2405058 |  |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/14/2024 4:55:10PM |

PH03 - 6'

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | DT       |          | Batch: 2405058 |
|                           |        |           |          |          |          |                |
| Chloride                  | 2650   | 200       | 10       | 01/31/24 | 02/01/24 |                |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/14/2024 4:55:10PM |

PH03 - 7'

|                                    |                      | Reporting    |          |          |          |                |   |
|------------------------------------|----------------------|--------------|----------|----------|----------|----------------|---|
| Analyte                            | Result               | Limit        | Dilution | Prepared | Analyzed | Notes          |   |
|                                    |                      |              |          |          |          |                |   |
| Anions by EPA 300.0/9056A          | mg/kg                | mg/kg        | Analyst: | : DT     |          | Batch: 2405058 |   |
| Anions by EPA 300.0/9056A Chloride | mg/kg<br><b>2420</b> | mg/kg<br>200 | Analyst: | 01/31/24 | 02/01/24 | Batch: 2405058 | _ |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/14/2024 4:55:10PM |

PH03 - 8' E401209-06

|                           |        | Reporting |             |          |          |                |
|---------------------------|--------|-----------|-------------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution    | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: DT |          |          | Batch: 2405058 |
| Chloride                  | 2440   | 200       | 10          | 01/31/24 | 02/01/24 |                |
| Sulfate                   | 21500  | 400       | 20          | 02/12/24 | 02/13/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/14/2024 4:55:10PM |

PH03 - 9'

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | DT       |          | Batch: 2405058 |
| Chloride                  | 2220   | 200       | 10       | 01/31/24 | 02/01/24 |                |
| Sulfate                   | 20600  | 400       | 20       | 02/12/24 | 02/13/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/14/2024 4:55:10PM |

PH03 - 10' E401209-08

|                           |        | Reporting |             |          |          |                |
|---------------------------|--------|-----------|-------------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution    | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: DT |          |          | Batch: 2405058 |
| Chloride                  | 1610   | 200       | 10          | 01/31/24 | 02/01/24 |                |
| Sulfate                   | 19200  | 400       | 20          | 02/12/24 | 02/13/24 |                |

# **QC Summary Data**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB | Reported:           |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             |                     |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/14/2024 4:55:10PM |

|                      | by EPA 3 | PA 300.0/9056A     |                |                  |     | Analyst: DT   |             |              |                 |
|----------------------|----------|--------------------|----------------|------------------|-----|---------------|-------------|--------------|-----------------|
| Analyte              | Result   | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec | Rec<br>Limits | RPD         | RPD<br>Limit |                 |
| mg/kg                | mg/kg    | mg/kg              | mg/kg          | %                | %   | %             | %           | Notes        |                 |
| Blank (2405058-BLK1) |          |                    |                |                  |     |               | Prepared: 0 | 1/31/24 Anal | lyzed: 01/31/24 |
| Chloride             | ND       | 20.0               |                |                  |     |               |             |              |                 |

| LCS (2405058-BS1)               |      |      |     |         |                    |        | Prepared: 0 | 1/31/24 Ana | ilyzed: 01/31/24 |  |
|---------------------------------|------|------|-----|---------|--------------------|--------|-------------|-------------|------------------|--|
| Chloride                        | 250  | 20.0 | 250 |         | 100                | 90-110 |             |             |                  |  |
| Matrix Spike (2405058-MS1)      |      |      |     | Source: | Source: E401208-03 |        |             | 1/31/24 Ana | alyzed: 01/31/24 |  |
| Chloride                        | 1350 | 20.0 | 250 | 1250    | 38.1               | 80-120 |             |             | M4               |  |
| Matrix Spike Dup (2405058-MSD1) |      |      |     | Source: | E401208-0          | 03     | Prepared: 0 | 1/31/24 Ana | alyzed: 01/31/24 |  |
| Chloride                        | 1380 | 20.0 | 250 | 1250    | 51.3               | 80-120 | 2.41        | 20          | M4               |  |



## **QC Summary Data**

| Matador Resources, LLC.<br>5400 LBJ Freeway, Suite 1500<br>Dallas TX, 75240 | 5400 LBJ Freeway, Suite 1500 Project Number: 23052-0001 |                             |                         |                           |          |               |             |                   | <b>Reported:</b> 2/14/2024 4:55:10PM |
|-----------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------|-------------------------|---------------------------|----------|---------------|-------------|-------------------|--------------------------------------|
|                                                                             |                                                         | Anions                      | by EPA                  | 300.0/9056                | A        |               |             |                   | Analyst: RAS                         |
| Analyte                                                                     | Result                                                  | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits | RPD<br>%    | RPD<br>Limit<br>% | Notes                                |
| Blank (2407019-BLK1)                                                        |                                                         |                             |                         |                           |          | I             | Prepared: 0 | 2/12/24 <i>A</i>  | Analyzed: 02/13/24                   |
| Sulfate                                                                     | ND                                                      | 20.0                        |                         |                           |          |               |             |                   |                                      |
| LCS (2407019-BS1)                                                           |                                                         |                             |                         |                           |          | F             | Prepared: 0 | 2/12/24 <i>A</i>  | Analyzed: 02/13/24                   |

| Matrix Spike (240/019-MS1)      |       |     |     | Source: | E401209- | 02RE1  | Prepared: 02 | /12/24 Anai | yzed: 02/13/24 |
|---------------------------------|-------|-----|-----|---------|----------|--------|--------------|-------------|----------------|
| Sulfate                         | 19900 | 400 | 250 | 19900   | 4.67     | 80-120 |              |             | M4             |
| Matrix Spike Dup (2407019-MSD1) |       |     |     | Source: | E401209- | 02RE1  | Prepared: 02 | /12/24 Anal | yzed: 02/13/24 |
| Sulfate                         | 20100 | 400 | 250 | 19900   | 77.2     | 80-120 | 0.907        | 20          | M4             |
|                                 |       |     |     |         |          |        |              |             |                |
|                                 |       |     |     |         |          |        |              |             |                |
|                                 |       |     |     |         |          |        |              |             |                |

250

98.9

90-110

247

20.0

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



## **Definitions and Notes**

| l | Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                |
|---|------------------------------|------------------|------------------------|----------------|
| l | 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:      |
| ١ | Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 02/14/24 16:55 |

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



| F | A Pr | ogra | m  |
|---|------|------|----|
| V | VA   |      | WA |
|   |      | RC   | RA |
| 2 | te   |      |    |
|   | AZ   | TX   |    |
| n | arks |      |    |
|   |      |      |    |

| Client: 1       | Matador Prod     | duction C   | ompany.              |                      | Bill To                                    |                 |                    |                      | Lab U       | se Or       | nlv            |          |           |       | TA     | Т                    | FPA P   | rogram |
|-----------------|------------------|-------------|----------------------|----------------------|--------------------------------------------|-----------------|--------------------|----------------------|-------------|-------------|----------------|----------|-----------|-------|--------|----------------------|---------|--------|
|                 | Charlie Swe      |             |                      |                      | Attention: Matador Product                 | ion Company     |                    |                      |             |             | Numbe          | er       | 1D        | 2D    | 3D     | Standard             | CWA     | SDW    |
|                 | Manager: As      |             |                      |                      | Address: on file                           | F               |                    |                      | 09          | 23052-000   |                |          |           |       |        | X                    | GIII.   | -      |
| Address         | : 3122 Natio     | nal Parks   | Hwy                  | 11                   | City, State, Zip:                          |                 |                    |                      |             | Analy       | sis and        | Metho    | d         |       | 3      |                      |         | RCR.   |
|                 | te, Zip: Carls   |             | 88220                |                      | Phone: (337)319-8398                       |                 | by                 |                      |             |             |                |          |           |       |        |                      |         |        |
|                 | 575-988-005      |             |                      |                      | Email: clinton.talley@matad                | orresources.com | ORO<br>ORO         |                      |             |             |                |          |           |       |        |                      | State   |        |
|                 | giovengo@e       | nsolum.c    | com                  |                      |                                            |                 | NO/                | 1,0                  | 1 00        | 0           | 0.00           |          | ΣZ        | 1     |        | NM CO                | UT AZ   | TX     |
| Report d        | due by:          |             |                      |                      |                                            | 1               | 30/0               | 08.0                 | / 826       | 601         | Je 30          | Ŧ        |           |       | 100    | ×                    |         |        |
| Time<br>Sampled | Date Sampled     | Matrix      | No. of<br>Containers | Sample ID            | <u> </u>                                   | Lab<br>Number   | TPH GRO/DRO/ORO by | 8015<br>RTEX hv 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | тсео трн | BGDOC     |       | GDOC   |                      | Remarks |        |
| 13:05           | 1/25/2024        | Soil        | 1                    |                      | PH03 - 3'                                  | 1               |                    |                      |             |             | Х              |          |           |       |        |                      |         |        |
| 13:15           | 1/25/2024        | Soil        | 1                    |                      | PH03 - 4'                                  | Z               |                    |                      |             |             | х              |          |           |       |        |                      |         |        |
| 14:02           | 1/25/2024        | Soil        | 1                    |                      | PH04 - 5'                                  | 3               |                    |                      |             |             | х              |          |           |       |        |                      |         |        |
| 14:06           | 1/25/2024        | Soil        | 1                    |                      | PH03 - 6'                                  | 4               |                    |                      |             |             | х              |          |           |       |        |                      |         |        |
| 14:10           | 1/25/2024        | Soil        | 1                    |                      | PH03 - 7'                                  | 5               |                    |                      |             |             | х              |          |           |       |        |                      |         |        |
| 14:14           | 1/25/2024        | Soil        | 1                    |                      | PH03 - 8'                                  | 0               |                    |                      |             |             | х              |          |           |       |        |                      |         |        |
| 14:43           | 1/25/2024        | Soil        | 1                    |                      | PH03 - 9'                                  | 7               |                    | T                    | T           |             | х              |          |           |       |        |                      |         |        |
| 15:00           | 1/25/2024        | Soil        | 1                    |                      | PH03 - 10'                                 | 8               |                    | T                    |             |             | х              |          |           |       |        |                      |         |        |
|                 |                  |             |                      |                      |                                            |                 |                    |                      |             |             |                |          |           |       |        |                      |         |        |
|                 |                  |             |                      |                      |                                            |                 |                    |                      |             |             |                |          |           |       |        |                      |         |        |
| Addition        | nal Instructio   | ns: Ple     | ase CC: c            | burton@ensolu        | m.com, agiovengo@ensolum.co                | m, chamilton@   | ensolun            | ı.cor                | n, eha      | ft@e        | nsolur         | n.com,   | iestr     | ella@ | enso   | lum.com              |         |        |
|                 |                  |             |                      |                      | aware that tampering with or intentionally |                 | location,          |                      |             |             |                |          |           |       |        | eived on ice the day |         |        |
|                 | ed by: (Signatur |             |                      | be grounds for legal | Received by: (Signature)                   |                 | Tim                | 10                   | _           |             | -              |          | -         | -     | se Onl |                      |         |        |
| -               | ll S             | *           | 1/                   | 25/24 8:             | 01 Wille Yes                               | b 1260          | 24 (               | 200                  | X           | Rece        | eived o        | n ice:   |           | DI    |        | y                    |         |        |
| Mic             | ed by: (Signatur | yle         |                      |                      | Received by: (Signature)                   | Date 1-26-      | Ly Tim             | 171                  | 5           | <u>T1</u>   |                |          | <u>T2</u> |       |        | <u>T3</u>            |         |        |
| telinguish      | ed by: (Signatur | e) <b>Y</b> | Date                 | Time                 | Received by: (Signature)                   | Date 1 27 2     | 24 Tim             | e<br>X:              | 20          |             |                | 0-       | 4         |       |        |                      |         |        |
| Andre           | ew M             | 850         | 11-                  | 26-24 230            | 20 1 (2)                                   | Containe        | -1                 | 0 -                  | 5           | AVG         | Temp           | C        | 1         |       |        |                      |         |        |



che client expense. The report for the analysis of the above

Printed: 1/29/2024 4:05:20PM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

|            | no response concerning these rems within 2 mount of the                                                                                                                                                                      |                  | ,                 |                   |          |                |                 |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|-------------------|----------|----------------|-----------------|
| Client:    | Matador Resources, LLC.                                                                                                                                                                                                      | Date Received:   | 01/27/24          | 08:30             |          | Work Order ID: | E401209         |
| Phone:     | (972) 371-5200                                                                                                                                                                                                               | Date Logged In:  | 01/29/24          | 11:15             |          | Logged In By:  | Angelina Pineda |
| Email:     | agiovngo@ensolum.com                                                                                                                                                                                                         | Due Date:        | 02/02/24          | 17:00 (4 day TAT) |          | ,              |                 |
| 1. Does to | Custody (COC)  ne sample ID match the COC?  ne number of samples per sampling site location mate                                                                                                                             | ch the COC       | Yes<br>Yes        |                   |          |                |                 |
|            | amples dropped off by client or carrier?                                                                                                                                                                                     | . 1 1 0          | Yes               | Carrier: C        | Courier_ |                |                 |
| 5. Were a  | e COC complete, i.e., signatures, dates/times, reques<br>Il samples received within holding time?<br>Note: Analysis, such as pH which should be conducted in<br>i.e, 15 minute hold time, are not included in this disucssio | the field,       | Yes<br>Yes        |                   |          | Comments       | s/Resolution    |
|            | Furn Around Time (TAT)  ac COC indicate standard TAT, or Expedited TAT?                                                                                                                                                      |                  | Yes               |                   |          |                |                 |
|            |                                                                                                                                                                                                                              |                  | 168               |                   |          |                |                 |
| Sample 0   | sample cooler received?                                                                                                                                                                                                      |                  | Yes               |                   |          |                |                 |
|            | was cooler received in good condition?                                                                                                                                                                                       |                  | Yes               |                   |          |                |                 |
| -          | e sample(s) received intact, i.e., not broken?                                                                                                                                                                               |                  | Yes               |                   |          |                |                 |
|            | custody/security seals present?                                                                                                                                                                                              |                  |                   |                   |          |                |                 |
|            | • •                                                                                                                                                                                                                          |                  | No                |                   |          |                |                 |
| 12. Was th | were custody/security seals intact?  e sample received on ice? If yes, the recorded temp is 4°C,  Note: Thermal preservation is not required, if samples are minutes of sampling                                             | received w/i 15  | NA<br>Yes         |                   |          |                |                 |
|            | visible ice, record the temperature. Actual sample                                                                                                                                                                           | temperature: 4-0 | <u>_</u>          |                   |          |                |                 |
| _          | Container                                                                                                                                                                                                                    |                  | N                 |                   |          |                |                 |
|            | queous VOC samples present?                                                                                                                                                                                                  |                  | No                |                   |          |                |                 |
|            | OC samples collected in VOA Vials?                                                                                                                                                                                           |                  | NA<br>NA          |                   |          |                |                 |
|            | head space less than 6-8 mm (pea sized or less)?                                                                                                                                                                             |                  |                   |                   |          |                |                 |
|            | trip blank (TB) included for VOC analyses?                                                                                                                                                                                   |                  | NA                |                   |          |                |                 |
|            | on-VOC samples collected in the correct containers?                                                                                                                                                                          |                  | Yes               |                   |          |                |                 |
|            | appropriate volume/weight or number of sample contain                                                                                                                                                                        | ers collected?   | Yes               |                   |          |                |                 |
| S<br>D     | field sample labels filled out with the minimum information ample ID? Note that a collected? Note that a collected?                                                                                                          | rmation:         | Yes<br>Yes<br>Yes |                   |          |                |                 |
| Sample 1   | Preservation                                                                                                                                                                                                                 |                  | 103               |                   |          |                |                 |
|            | the COC or field labels indicate the samples were pro-                                                                                                                                                                       | eserved?         | No                |                   |          |                |                 |
| 22. Are s  | ample(s) correctly preserved?                                                                                                                                                                                                |                  | NA                |                   |          |                |                 |
| 24. Is lab | filteration required and/or requested for dissolved m                                                                                                                                                                        | etals?           | No                |                   |          |                |                 |
| Multipha   | se Sample Matrix                                                                                                                                                                                                             |                  |                   |                   |          |                |                 |
| 26. Does   | the sample have more than one phase, i.e., multiphas                                                                                                                                                                         | e?               | No                |                   |          |                |                 |
|            | , does the COC specify which phase(s) is to be analy                                                                                                                                                                         |                  | NA                |                   |          |                |                 |
|            | ract Laboratory  amples required to get sent to a subcontract laborator                                                                                                                                                      | w?)              | No                |                   |          |                |                 |
|            | subcontract laboratory specified by the client and if                                                                                                                                                                        |                  | NA                | Subcontract Lab   | o: NA    |                |                 |
|            | nstruction                                                                                                                                                                                                                   |                  |                   |                   |          |                |                 |
|            |                                                                                                                                                                                                                              |                  |                   |                   |          |                |                 |
|            |                                                                                                                                                                                                                              |                  |                   |                   |          |                |                 |
|            |                                                                                                                                                                                                                              |                  |                   |                   |          |                |                 |
|            |                                                                                                                                                                                                                              |                  |                   |                   |          |                |                 |
|            |                                                                                                                                                                                                                              |                  |                   |                   |          |                |                 |
|            |                                                                                                                                                                                                                              |                  |                   |                   |          |                |                 |
|            |                                                                                                                                                                                                                              |                  |                   |                   |          |                |                 |
|            |                                                                                                                                                                                                                              |                  |                   |                   |          |                |                 |
|            |                                                                                                                                                                                                                              |                  |                   |                   |          |                |                 |

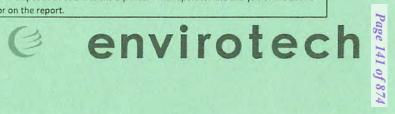
Signature of client authorizing changes to the COC or sample disposition.

Received by OCD: 9/18/2024 9:56:21 AM

of 1

Page 1

|                 | Matador Pro                                                                                                                                                        |                              |                      |                     | Bill To                                                                                      |                |         |                            | Lab          | Us          | e On   | ly             |         |          |        |        |       | AT   |                                   | EPA P        | ogram   |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------|---------------------|----------------------------------------------------------------------------------------------|----------------|---------|----------------------------|--------------|-------------|--------|----------------|---------|----------|--------|--------|-------|------|-----------------------------------|--------------|---------|
|                 | Charlie Swe                                                                                                                                                        | and the second second second |                      |                     | Attention: Matador Production Co                                                             | ompany         | Lab     | WO#                        |              |             | 1 dol  |                |         |          | 1D     | 2D     | 3D    | St   | andard                            | CWA          | SDWA    |
| Project N       | Manager: As                                                                                                                                                        | hley Gio                     | vengo                |                     | Address: on file                                                                             |                | EH      | 1011                       | 209          |             | 23     | 356            | 3-0     | $\infty$ |        |        |       | 6    | X                                 |              |         |
| Address:        | 3122 Natio                                                                                                                                                         | nal Parks                    | Hwy                  |                     | City, State, Zip:                                                                            |                |         |                            |              |             | Analy  | sis ar         | -       | ethod    | 4      |        |       |      |                                   |              | RCRA    |
| City, Stat      | te, Zip: Carls                                                                                                                                                     | bad NM                       | 88220                |                     | Phone: (337)319-8398                                                                         |                |         | by                         |              |             |        |                | 0       |          |        |        |       |      |                                   |              |         |
| Phone:          | 575-988-005                                                                                                                                                        | 5                            |                      |                     | Email: clinton.talley@matadorrese                                                            | ources.com     |         | ORO                        |              |             |        |                | 300.0   |          |        |        |       |      |                                   | State        |         |
| Email: a        | giovengo@e                                                                                                                                                         | nsolum.                      | com                  |                     |                                                                                              |                |         | RO/                        | 7            | 0           | 0      | 0.0            | CU      |          | Σ×     |        | -     |      | NM CO                             | UT AZ        | TX      |
| Report d        | ue by:                                                                                                                                                             |                              |                      |                     |                                                                                              |                |         | 0/0                        | 80           | 826         | 6010   | 30             | +3      | I        |        |        | ¥     |      | ×                                 |              |         |
| Time<br>Sampled | Date Sampled                                                                                                                                                       | Matrix                       | No. of<br>Containers | Sample ID           |                                                                                              | Lab<br>Number  |         | трн GRO/DRO/ORO by<br>8015 | BTEX by 8021 | VOC by 8260 | Metals | Chloride 300.0 | Sulfate | TCEQ TP  | верос  |        | GDOC  |      |                                   | Remarks      |         |
| 13:05           | 1/25/2024                                                                                                                                                          | Soil                         | 1                    |                     | PH03 - 3'                                                                                    | 1              |         |                            |              |             |        | X              | X       |          |        |        |       |      |                                   |              |         |
| 13:15           | 1/25/2024                                                                                                                                                          | Soil                         | 1                    |                     | PH03 - 4'                                                                                    | 2              |         |                            |              |             |        | Х              | 1.      | AP       |        |        |       |      |                                   |              |         |
| 14:02           | 1/25/2024                                                                                                                                                          | Soil                         | 1                    |                     | 25 PHO3 5                                                                                    | 3              |         |                            |              |             |        | Х              |         |          |        |        |       |      | changer cli<br>2/5                | est v        | equest  |
| 14:06           | 1/25/2024                                                                                                                                                          | Soil                         | 1                    |                     | PH03 - 6'                                                                                    | 4              |         |                            |              |             |        | X              |         |          |        |        |       |      | 2/5                               | 124:         | 18      |
| 14:10           | 1/25/2024                                                                                                                                                          | Soil                         | 1                    |                     | PH03 - 7'                                                                                    | 5              |         |                            |              |             |        | X              |         |          |        |        |       |      |                                   |              |         |
| 14:14           | 1/25/2024                                                                                                                                                          | Soil                         | 1                    |                     | PH03 - 8'                                                                                    | 0              |         |                            |              |             |        | Х              |         |          | 100    |        |       |      |                                   |              |         |
| 14:43           | 1/25/2024                                                                                                                                                          | Soil                         | 1                    |                     | PH03 - 9'                                                                                    | 7              |         |                            |              |             |        | х              |         |          |        |        |       |      |                                   |              |         |
| 15:00           | 1/25/2024                                                                                                                                                          | Soil                         | 1                    |                     | PH03 - 10'                                                                                   | 8              |         |                            |              |             |        | Х              | 1       |          |        |        |       |      |                                   | 150          |         |
|                 |                                                                                                                                                                    |                              |                      |                     |                                                                                              |                |         |                            |              |             |        |                |         |          |        |        |       |      |                                   |              |         |
|                 |                                                                                                                                                                    |                              |                      |                     |                                                                                              |                |         |                            |              |             |        |                |         |          |        |        |       |      | Tital                             |              |         |
| Addition        | al Instructio                                                                                                                                                      | ns: Ple                      | ase CC: cl           | ourton@enso         | lum.com, agiovengo@ensolum.com, ch                                                           | amilton@       | ensol   | um.c                       | om, e        | haf         | t@er   | nsolu          | ım.c    | om,i     | estre  | ella@  | Penso | olum | .com                              |              |         |
|                 |                                                                                                                                                                    |                              |                      | y of this sample. I | am aware that tampering with or intentionally mislabel<br>al action. Sampled by: Cole Burton | ing the sample | locatio | on,                        |              |             |        |                |         |          |        |        |       |      | on ice the day<br>in 6 °C on subs |              | eled or |
| Relinquishe     | ed by: (Signatur                                                                                                                                                   | 2                            | Date                 | 25/14 Time          | Received by: (Signature)                                                                     | Date 1-26 0    | 24      | Time                       | 34           |             | Rece   | ived           | on i    | ce:      | La     | b Us   | e On  | ly   |                                   |              |         |
| Relinquishe     | ed by: (Signatur                                                                                                                                                   | e) le                        | Date 1-              | 2624 Time           | Received by: (Signature)                                                                     | Date 1-26-     |         | Time                       | 715          |             | T1     |                |         |          | T2     |        |       |      | Т3                                |              |         |
| Relinguishe     | ed by: (Signatur                                                                                                                                                   | e) V                         | Date                 | Time                | Received by: (Signature)                                                                     | Date 1 27 2    | 24      | Time                       | 30           | ,           | AVG    | Tem            | p °C    | L        | 7      | 4      |       |      |                                   |              |         |
|                 | ix: S - Soil, Sd - Si                                                                                                                                              | olid, Sg - Slu               |                      |                     | - Sund                                                                                       | Container      | Туре    | :g-g                       | lass, p      | _           |        |                |         |          | er gla | ass, v | - VO  | 4    |                                   |              |         |
| lote: Samp      | les are discard                                                                                                                                                    | ed 30 days                   | after result         | s are reported u    | nless other arrangements are made. Hazardous                                                 |                |         |                            |              |             |        |                |         |          |        |        |       |      | t for the an                      | alysis of th | above   |
|                 | ples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report |                              |                      |                     |                                                                                              |                |         |                            |              |             |        |                |         |          |        |        |       |      |                                   |              |         |



Printed: 2/5/2024 2:25:11PM

#### Dogo 1

#### Envirotech Analytical Laboratory Sample Receipt Checklist (SRC)

181ks.

|                                                                                                                                          | _  |
|------------------------------------------------------------------------------------------------------------------------------------------|----|
| ve receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested. | IL |
| tructions: Please take note of any MO checkmarks.                                                                                        |    |

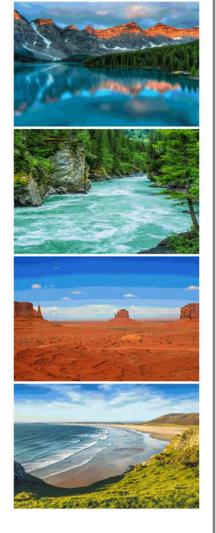
|             | Client Instruction                                                                                                                                                                 |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S VN        | . Was a subcontract laboratory specified by the client and if so who?                                                                                                              |
|             | S. Are samples required to get sent to a subcontract laboratory?                                                                                                                   |
|             | ideontract Laboratory.                                                                                                                                                             |
| VN          | If yes, does the COC specify which phase(s) is to be analyzed?                                                                                                                     |
| oN          | Does the sample have more than one phase, i.e., multiphase?                                                                                                                        |
|             | ultiphase Sample Matrix                                                                                                                                                            |
| oN          | . Is lab filteration required and/or requested for dissolved metals?                                                                                                               |
| ٧N          | . Are sample(s) correctly preserved?                                                                                                                                               |
| oN          | . Does the COC or field labels indicate the samples were preserved?                                                                                                                |
| 621         | Collectors name?                                                                                                                                                                   |
|             | Date/Time Collected?                                                                                                                                                               |
| Yes         | Sample ID?                                                                                                                                                                         |
|             | . Were field sample labels filled out with the minimum information:                                                                                                                |
|             | eld Label                                                                                                                                                                          |
|             | . Is the appropriate volume/weight or number of sample containers collected?                                                                                                       |
|             | V. Was a trip blank (TB) included for VOC analyses? J. Are non-VOC samples collected in the correct containers?                                                                    |
|             | 5. Is the head space less than 6-8 mm (pea sized or less)?                                                                                                                         |
|             | Are VOC samples collected in VOA Vials?                                                                                                                                            |
| oN          | Are aqueous VOC samples present?                                                                                                                                                   |
|             | ample Container                                                                                                                                                                    |
| 5           | minutes of sampling Actual sample temperature: 4º                                                                                                                                  |
| 521         | J. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C. Note: Thermal preservation is not required, if samples are received w/i 15                      |
|             | . If yes, were custody/security seals intact?                                                                                                                                      |
|             | . Were custody/security seals present?                                                                                                                                             |
|             | Was the sample(s) received intact, i.e., not broken?                                                                                                                               |
|             | If yes, was cooler received in good condition?                                                                                                                                     |
|             | Was a sample cooler received?                                                                                                                                                      |
|             | imple Cooler                                                                                                                                                                       |
| Yes         | Did the COC indicate standard TAT, or Expedited TAT?                                                                                                                               |
|             | imple Turn Around Time (TAT)                                                                                                                                                       |
| ДCS         | Were all samples received within holding time?  Note: Analysis, such as pH which should be conducted in the field,  i.e, 15 minute hold time, are not included in this disuession. |
| Yes         | Was the COC complete, i.e., signatures, dates/times, requested analyses?                                                                                                           |
| Yes         | Were samples dropped off by client or carrier?                                                                                                                                     |
| Yes         | Does the number of samples per sampling site location match the COC                                                                                                                |
| Yes         | Does the sample ID match the COC?                                                                                                                                                  |
|             | hain of Custody (COC).                                                                                                                                                             |
| 05/09/24 1. | mail: agiovngo@ensolum.com Due Date:                                                                                                                                               |
| 11 72/67/10 | pone: (972) 371-5200 Date Logged In:                                                                                                                                               |
| 01/51/54 08 | lient: Matador Resources, LLC. Date Received:                                                                                                                                      |
|             | NO N                                                                                                                                           |

Date

envirotech Inc.

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Charlie Sweeney Fed TB

Work Order: E402003

Job Number: 23052-0001

Received: 2/1/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/6/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/6/24

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Charlie Sweeney Fed TB

Workorder: E402003

Date Received: 2/1/2024 8:46:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/1/2024 8:46:00AM, under the Project Name: Charlie Sweeney Fed TB.

The analytical test results summarized in this report with the Project Name: Charlie Sweeney Fed TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Cell: 775-287-1762

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## **Sample Summary**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB | Donoutoda      |
|------------------------------|------------------|------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:      |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 02/06/24 14:15 |

| Client Sample ID | Lab Sample ID Matrix | Sampled Recei  | ved Container        |
|------------------|----------------------|----------------|----------------------|
| FS09-2'          | E402003-01A Soil     | 01/29/24 02/01 | /24 Glass Jar, 2 oz. |
| SW01 0-2'        | E402003-02A Soil     | 01/29/24 02/01 | /24 Glass Jar, 2 oz. |
| SW02 0-2'        | E402003-03A Soil     | 01/29/24 02/01 | /24 Glass Jar, 2 oz. |
| SW03 0-2'        | E402003-04A Soil     | 01/29/24 02/01 | /24 Glass Jar, 2 oz. |
| SW04 0-2'        | F402003-05A Soil     | 01/29/24 02/01 | /24 Glass Jar. 2 oz. |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/6/2024 2:15:00PM |

#### FS09-2' E402003-01

|                                                |        | E402003-01         |          |          |             |                |
|------------------------------------------------|--------|--------------------|----------|----------|-------------|----------------|
| Analyte                                        | Result | Reporting<br>Limit | Dilution | Prepared | Analyzed    | Notes          |
| Maryo                                          | Result | Liiiit             | Dilution | Trepared | 7 thaty zed | rocs           |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg              | Analy    | /st: EG  |             | Batch: 2405149 |
| Benzene                                        | ND     | 0.0250             | 1        | 02/02/24 | 02/04/24    |                |
| Ethylbenzene                                   | ND     | 0.0250             | 1        | 02/02/24 | 02/04/24    |                |
| Toluene                                        | ND     | 0.0250             | 1        | 02/02/24 | 02/04/24    |                |
| o-Xylene                                       | ND     | 0.0250             | 1        | 02/02/24 | 02/04/24    |                |
| p,m-Xylene                                     | ND     | 0.0500             | 1        | 02/02/24 | 02/04/24    |                |
| Total Xylenes                                  | ND     | 0.0250             | 1        | 02/02/24 | 02/04/24    |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 94.8 %             | 70-130   | 02/02/24 | 02/04/24    |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg              | Analy    | vst: EG  |             | Batch: 2405149 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0               | 1        | 02/02/24 | 02/04/24    |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 96.5 %             | 70-130   | 02/02/24 | 02/04/24    |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg              | Analy    | /st: JL  |             | Batch: 2405133 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0               | 1        | 02/03/24 | 02/03/24    |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0               | 1        | 02/03/24 | 02/03/24    |                |
| Surrogate: n-Nonane                            |        | 91.2 %             | 50-200   | 02/03/24 | 02/03/24    |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg              | Analy    | /st: IY  |             | Batch: 2406003 |
| Chloride                                       | 437    | 20.0               | 1        | 02/04/24 | 02/04/24    |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/6/2024 2:15:00PM |

## SW01 0-2'

| E402003-02                                     |        |           |          |            |          |                |
|------------------------------------------------|--------|-----------|----------|------------|----------|----------------|
|                                                |        | Reporting |          |            |          |                |
| Analyte                                        | Result | Limit     | Dilution | n Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg     | Ana      | alyst: EG  |          | Batch: 2405149 |
| Benzene                                        | ND     | 0.0250    | 1        | 02/02/24   | 02/04/24 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1        | 02/02/24   | 02/04/24 |                |
| Toluene                                        | ND     | 0.0250    | 1        | 02/02/24   | 02/04/24 |                |
| o-Xylene                                       | ND     | 0.0250    | 1        | 02/02/24   | 02/04/24 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1        | 02/02/24   | 02/04/24 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1        | 02/02/24   | 02/04/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 94.0 %    | 70-130   | 02/02/24   | 02/04/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | Ana      | alyst: EG  |          | Batch: 2405149 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1        | 02/02/24   | 02/04/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 96.5 %    | 70-130   | 02/02/24   | 02/04/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | Ana      | alyst: JL  |          | Batch: 2405133 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1        | 02/03/24   | 02/04/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1        | 02/03/24   | 02/04/24 |                |
| Surrogate: n-Nonane                            |        | 89.4 %    | 50-200   | 02/03/24   | 02/04/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | Ana      | alyst: IY  |          | Batch: 2406003 |
| Chloride                                       | 175    | 20.0      | 1        | 02/04/24   | 02/04/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/6/2024 2:15:00PM |

## SW02 0-2'

| E402003-03                                     |        |           |         |            |          |                |
|------------------------------------------------|--------|-----------|---------|------------|----------|----------------|
|                                                |        | Reporting |         |            |          |                |
| Analyte                                        | Result | Limit     | Dilutio | n Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg     | An      | nalyst: EG |          | Batch: 2405149 |
| Benzene                                        | ND     | 0.0250    | 1       | 02/02/24   | 02/04/24 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1       | 02/02/24   | 02/04/24 |                |
| Toluene                                        | ND     | 0.0250    | 1       | 02/02/24   | 02/04/24 |                |
| o-Xylene                                       | ND     | 0.0250    | 1       | 02/02/24   | 02/04/24 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1       | 02/02/24   | 02/04/24 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1       | 02/02/24   | 02/04/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 94.4 %    | 70-130  | 02/02/24   | 02/04/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | An      | nalyst: EG |          | Batch: 2405149 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1       | 02/02/24   | 02/04/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 95.6 %    | 70-130  | 02/02/24   | 02/04/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | An      | nalyst: JL |          | Batch: 2405133 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1       | 02/03/24   | 02/04/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1       | 02/03/24   | 02/04/24 |                |
| Surrogate: n-Nonane                            |        | 90.8 %    | 50-200  | 02/03/24   | 02/04/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | An      | alyst: IY  |          | Batch: 2406003 |
| Chloride                                       | 283    | 20.0      | 1       | 02/04/24   | 02/04/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/6/2024 2:15:00PM |

#### SW03 0-2'

| E402003-04                                     |        |           |          |          |          |                |
|------------------------------------------------|--------|-----------|----------|----------|----------|----------------|
|                                                |        | Reporting |          |          |          |                |
| Analyte                                        | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg     | Ana      | lyst: EG |          | Batch: 2405149 |
| Benzene                                        | ND     | 0.0250    | 1        | 02/02/24 | 02/04/24 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1        | 02/02/24 | 02/04/24 |                |
| Toluene                                        | ND     | 0.0250    | 1        | 02/02/24 | 02/04/24 |                |
| o-Xylene                                       | ND     | 0.0250    | 1        | 02/02/24 | 02/04/24 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1        | 02/02/24 | 02/04/24 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1        | 02/02/24 | 02/04/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 94.4 %    | 70-130   | 02/02/24 | 02/04/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | Ana      | lyst: EG |          | Batch: 2405149 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1        | 02/02/24 | 02/04/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 95.0 %    | 70-130   | 02/02/24 | 02/04/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | Ana      | lyst: JL |          | Batch: 2405133 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1        | 02/03/24 | 02/04/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1        | 02/03/24 | 02/04/24 |                |
| Surrogate: n-Nonane                            |        | 93.5 %    | 50-200   | 02/03/24 | 02/04/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | Ana      | lyst: IY |          | Batch: 2406003 |
| Chloride                                       | 494    | 20.0      | 1        | 02/04/24 | 02/04/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/6/2024 2:15:00PM |

#### SW04 0-2' E402003-05

|                                                |        | E402003-03         |          |          |          |                |
|------------------------------------------------|--------|--------------------|----------|----------|----------|----------------|
| Analyte                                        | Result | Reporting<br>Limit | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg              | Analy    | vst: EG  |          | Batch: 2405149 |
| Benzene                                        | ND     | 0.0250             | 1        | 02/02/24 | 02/04/24 |                |
| Ethylbenzene                                   | ND     | 0.0250             | 1        | 02/02/24 | 02/04/24 |                |
| Toluene                                        | ND     | 0.0250             | 1        | 02/02/24 | 02/04/24 |                |
| -Xylene                                        | ND     | 0.0250             | 1        | 02/02/24 | 02/04/24 |                |
| o,m-Xylene                                     | ND     | 0.0500             | 1        | 02/02/24 | 02/04/24 |                |
| Total Xylenes                                  | ND     | 0.0250             | 1        | 02/02/24 | 02/04/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 94.1 %             | 70-130   | 02/02/24 | 02/04/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg              | Analy    | vst: EG  |          | Batch: 2405149 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0               | 1        | 02/02/24 | 02/04/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 95.4 %             | 70-130   | 02/02/24 | 02/04/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg              | Analy    | vst: JL  |          | Batch: 2405133 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0               | 1        | 02/03/24 | 02/04/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0               | 1        | 02/03/24 | 02/04/24 |                |
| Surrogate: n-Nonane                            |        | 88.8 %             | 50-200   | 02/03/24 | 02/04/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg              | Analy    | st: IY   |          | Batch: 2406003 |
| Chloride                                       | 311    | 20.0               | 1        | 02/04/24 | 02/05/24 |                |
|                                                |        |                    |          |          |          |                |



Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 4-Bromochlorobenzene-PID

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Matrix Spike Dup (2405149-MSD1)

7.56

4.83

4.80

4 81

4.76

9.68

14.4

7.58

#### **QC Summary Data**

Charlie Sweeney Fed TB Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23052-0001 Dallas TX, 75240 Project Manager: Ashley Giovengo 2/6/2024 2:15:00PM **Volatile Organics by EPA 8021B** Analyst: EG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2405149-BLK1) Prepared: 02/02/24 Analyzed: 02/04/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.53 8.00 94.1 70-130 LCS (2405149-BS1) Prepared: 02/02/24 Analyzed: 02/04/24 4.96 99.2 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.94 0.0250 5.00 98.8 70-130 4.94 0.0250 5.00 98.7 70-130 Toluene 97.8 o-Xylene 4.89 0.0250 5.00 70-130 9.95 10.0 99.5 70-130 0.0500 p.m-Xvlene 98.9 14.8 15.0 70-130 Total Xylenes 0.0250 8.00 94.5 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.56 Source: E402003-03 Matrix Spike (2405149-MS1) Prepared: 02/02/24 Analyzed: 02/04/24 4.95 0.0250 5.00 ND 54-133 Benzene 98.1 61-133 Ethylbenzene 4.91 0.0250 5.00 ND Toluene 4.91 0.0250 5.00 ND 98.2 61-130 ND 97.3 63-131 4.86 5.00 0.0250 o-Xylene p,m-Xylene 9.89 0.0500 10.0 ND 98.9 63-131 14.8 0.0250 15.0 ND 63-131 Total Xylenes

8.00

5.00

5.00

5.00

5.00

10.0

15.0

8.00

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

70-130

54-133

61-133

61-130

63-131

63-131

63-131

70-130

2.30

2.14

2.10

2.26

2.20

2 22

Source: E402003-03

96.0

96.2

95.1

96.8

96.2

94.8

ND

ND

ND

ND

ND

ND



Prepared: 02/02/24 Analyzed: 02/04/24

20

20

20

20

20

Matrix Spike Dup (2405149-MSD2)

Gasoline Range Organics (C6-C10)

Surrogate: 1-Chloro-4-fluorobenzene-FID

49.0

7.79

20.0

## **QC Summary Data**

Matador Resources, LLC.Project Name:Charlie Sweeney Fed TBReported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo2/6/2024 2:15:00PM

| Dallas TX, 75240                        |                 | Project Manager             | r: As                   | hley Gioveng              | go       |                    |             | 2.                | /6/2024 2:15:00PN |
|-----------------------------------------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|-------------|-------------------|-------------------|
|                                         | Non             | halogenated (               | Organics l              | oy EPA 80                 | 15D - Gl | RO                 |             |                   | Analyst: EG       |
| Analyte                                 | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>%    | RPD<br>Limit<br>% | Notes             |
| Blank (2405149-BLK1)                    |                 |                             |                         |                           |          |                    | Prepared: 0 | 2/02/24 Ana       | lyzed: 02/04/24   |
| Gasoline Range Organics (C6-C10)        | ND              | 20.0                        |                         |                           |          |                    |             |                   |                   |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.61            |                             | 8.00                    |                           | 95.2     | 70-130             |             |                   |                   |
| LCS (2405149-BS2)                       |                 |                             |                         |                           |          |                    | Prepared: 0 | 2/02/24 Ana       | lyzed: 02/04/24   |
| Gasoline Range Organics (C6-C10)        | 49.0            | 20.0                        | 50.0                    |                           | 98.0     | 70-130             |             |                   |                   |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.69            |                             | 8.00                    |                           | 96.1     | 70-130             |             |                   |                   |
| Matrix Spike (2405149-MS2)              |                 |                             |                         | Source:                   | E402003- | 03                 | Prepared: 0 | 2/02/24 Ana       | lyzed: 02/04/24   |
| Gasoline Range Organics (C6-C10)        | 48.3            | 20.0                        | 50.0                    | ND                        | 96.6     | 70-130             |             |                   |                   |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.74            |                             | 8.00                    |                           | 96.7     | 70-130             |             |                   |                   |

50.0

8.00

Source: E402003-03

98.0

97.4

ND

Prepared: 02/02/24 Analyzed: 02/04/24

20

1.38

70-130

70-130

## **QC Summary Data**

Matador Resources, LLC.Project Name:Charlie Sweeney Fed TBReported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo2/6/20242:15:00PM

| Bullus 111, 73210               |                 | r roject manage             |                         | mey Groveng               | 50       |                    |             | _                 |                 |
|---------------------------------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|-------------|-------------------|-----------------|
|                                 |                 | Analyst: JL                 |                         |                           |          |                    |             |                   |                 |
| Analyte                         | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>%    | RPD<br>Limit<br>% | Notes           |
| Blank (2405133-BLK1)            |                 |                             |                         |                           |          |                    | Prepared: 0 | 2/03/24 Ana       | lyzed: 02/03/24 |
| Diesel Range Organics (C10-C28) | ND              | 25.0                        |                         |                           |          |                    |             |                   |                 |
| Oil Range Organics (C28-C36)    | ND              | 50.0                        |                         |                           |          |                    |             |                   |                 |
| Surrogate: n-Nonane             | 45.9            |                             | 50.0                    |                           | 91.7     | 50-200             |             |                   |                 |
| LCS (2405133-BS1)               |                 |                             |                         |                           |          |                    | Prepared: 0 | 2/03/24 Ana       | lyzed: 02/03/24 |
| Diesel Range Organics (C10-C28) | 270             | 25.0                        | 250                     |                           | 108      | 38-132             |             |                   |                 |
| Surrogate: n-Nonane             | 45.1            |                             | 50.0                    |                           | 90.2     | 50-200             |             |                   |                 |
| LCS Dup (2405133-BSD1)          |                 |                             |                         |                           |          |                    | Prepared: 0 | 2/03/24 Ana       | lyzed: 02/03/24 |
| Diesel Range Organics (C10-C28) | 260             | 25.0                        | 250                     |                           | 104      | 38-132             | 3.71        | 20                |                 |
| Surrogate: n-Nonane             | 43.9            |                             | 50.0                    |                           | 87.8     | 50-200             |             |                   |                 |
|                                 |                 |                             |                         |                           |          |                    |             |                   |                 |

Analyte

## **QC Summary Data**

| Matador Resources, LLC.<br>5400 LBJ Freeway, Suite 1500 | Project Name: Project Number: | Charlie Sweeney Fed TB<br>23052-0001 | Reported:          |
|---------------------------------------------------------|-------------------------------|--------------------------------------|--------------------|
| Dallas TX, 75240                                        | Project Manager:              | Ashley Giovengo                      | 2/6/2024 2:15:00PM |

|        | Anions             | by EPA 3       | 00.0/9056A       | <b>\</b> |               |     |              | Analyst: IY |
|--------|--------------------|----------------|------------------|----------|---------------|-----|--------------|-------------|
| Result | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec      | Rec<br>Limits | RPD | RPD<br>Limit |             |
| ma/ka  | ma/ka              | ma/ka          | ma/ka            | 0/-      | 0/-           | 0/- | 0/2          | Notes       |

|                        | mg/kg | mg/kg | mg/kg | mg/kg | %0   | %      | %            | %           | Notes           |
|------------------------|-------|-------|-------|-------|------|--------|--------------|-------------|-----------------|
| Blank (2406003-BLK1)   |       |       |       |       |      |        | Prepared: 02 | 2/04/24 Ana | lyzed: 02/04/24 |
| Chloride               | ND    | 20.0  |       |       |      |        |              |             |                 |
| LCS (2406003-BS1)      |       |       |       |       |      |        | Prepared: 02 | 2/04/24 Ana | lyzed: 02/04/24 |
| Chloride               | 247   | 20.0  | 250   |       | 98.7 | 90-110 |              |             |                 |
| LCS Dup (2406003-BSD1) |       |       |       |       |      |        | Prepared: 02 | 2/04/24 Ana | lyzed: 02/04/24 |
| Chloride               | 247   | 20.0  | 250   |       | 98.6 | 90-110 | 0.0543       | 20          |                 |

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



## **Definitions and Notes**

| l | Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                |
|---|------------------------------|------------------|------------------------|----------------|
| l | 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:      |
| ١ | Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 02/06/24 14:15 |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



| ceived by |
|-----------|
| OCD:      |
| 9/18/202  |
| 4 9:56:21 |
| IAM       |

|                 |                                     |           |                      |                                            |                                                                                                 |               |         |                            |              |             |              |                |          |          |       |             | 4       | (D                               |                               |           |
|-----------------|-------------------------------------|-----------|----------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------|---------------|---------|----------------------------|--------------|-------------|--------------|----------------|----------|----------|-------|-------------|---------|----------------------------------|-------------------------------|-----------|
| Client: 1       | Matador Pro                         | duction ( | Company              |                                            | Bill To                                                                                         |               |         |                            | L            | ab U        | se Only      | ,              |          |          |       | T           | AT      |                                  | EPA P                         | rogram    |
|                 | Charlie Sw                          |           |                      |                                            | Attention: Matador Production                                                                   | n Company     | Lab     | Lab WO#                    |              |             | Job Number   |                |          |          | 2D    | 3D          | Sta     | andard                           | CWA                           | SDWA      |
| Project I       | Manager: As                         | hley Gio  | vengo                |                                            | Address: on file                                                                                |               | E       | 1620                       | 503          |             | 230          | 2)-6           | 1000     |          |       |             |         | Х                                |                               |           |
| Address         | 3122 Natio                          | nal Parks | Hwy                  |                                            | City, State, Zip:                                                                               |               |         |                            |              |             | Analysi      | s and          | Meth     | od       |       |             |         |                                  |                               | RCRA      |
| City, Sta       | te, Zip: Carls                      | bad NM    | 88220                |                                            | Phone: (337)319-8398                                                                            |               |         | by                         |              |             |              |                |          |          |       |             |         |                                  | CE I                          |           |
| Phone:          | 575-988-005                         | 5         |                      |                                            | Email: clinton.talley@matadorr                                                                  | esources.con  | -       | 080<br>080                 |              |             |              |                |          |          | 1     |             |         |                                  | State                         |           |
| Email: a        | giovengo@e                          | nsolum.   | com                  |                                            |                                                                                                 |               |         | 30/0                       | H            |             |              | 0.0            |          | ΣN       |       |             |         | NM CO                            | UT AZ                         | TX        |
| Report o        | ue by:                              |           |                      |                                            |                                                                                                 |               |         | 0/0                        | 802          | 826         | 6010         | 300            | =        |          |       | X           | 1 [     | ×                                |                               |           |
| Time<br>Sampled | Date Sampled                        | Matrix    | No. of<br>Containers | Sample ID                                  |                                                                                                 | Lab<br>Number |         | TPH GRO/DRO/ORO by<br>8015 | ВТЕХ by 8021 | VOC by 8260 | Metals 6010  | Chloride 300.0 | ICEQ IPH | BGDOC    |       | GDOC        |         |                                  | Remarks                       |           |
| 8:36            | 1/29/2024                           | Soil      | 1                    |                                            | FS09 - 2'                                                                                       | 1             |         |                            |              |             |              |                |          | х        |       |             |         |                                  |                               |           |
| 10:31           | 1/29/2024                           | Soil      | 1                    |                                            | SW01 - 0-2'                                                                                     | 2             |         |                            |              |             |              |                |          | х        |       |             |         |                                  |                               |           |
| 10:33           | 1/29/2024                           | Soil      | 1                    |                                            | SW02 - 0-2'                                                                                     | 3             |         |                            |              |             |              |                |          | х        |       |             |         |                                  |                               |           |
| 10:35           | 1/29/2024                           | Soil      | 1                    |                                            | SW03 - 0-2'                                                                                     | 4             |         |                            |              |             |              | T              |          | х        |       |             |         |                                  |                               |           |
| 13:58           | 1/29/2024                           | Soil      | 1                    |                                            | SW04 - 0-2'                                                                                     | 5             |         |                            |              |             |              |                |          | х        |       |             |         |                                  |                               |           |
|                 |                                     |           |                      |                                            |                                                                                                 |               |         |                            |              |             |              |                |          |          |       |             |         |                                  |                               |           |
|                 |                                     |           |                      |                                            |                                                                                                 |               |         |                            |              |             |              |                |          |          |       |             |         |                                  |                               |           |
| ddition         | al Instructio                       | ns: Plea  | ase CC: cl           | ourton@enso                                | lum.com, agiovengo@ensolum.com,                                                                 | chamilton@e   | enso    | lum.c                      | com,         | ehaf        | t@ens        | olum           | .com     | , iesti  | ella  | @ens        | olum.   | com                              |                               |           |
|                 |                                     |           |                      | ty of this sample.<br>ly be grounds for le | am aware that tampering with or intentionally mis<br>egal action. Sampled by: Cole Burto        |               | le loca | ation,                     |              |             | The state of |                |          |          |       |             |         | on ice the day<br>n 6 °C on subs | they are samp<br>equent days. | led or    |
| Zel             | ed by: (Signatur                    |           | Date<br>) -          | 30-24                                      | 7:30                                                                                            | Date 1.31.    |         |                            | 05           | 5           | Receiv       | ved o          | n ice:   | C        | ab L  | Jse Or<br>N | nly     |                                  |                               |           |
| X               | ed by: (Signatur                    | 1         | 1100                 | 31.24                                      | 1605                                                                                            | Date   Date   | 24      | Time                       | 189          | 10          | T1           |                | _        | T2       |       |             | /       | <u>T3</u>                        |                               |           |
| N.              | 2                                   | خا        | 2.                   | 1.24 0                                     | 225 Received by: (Signature)                                                                    | 2/1/2         | 24      | 8                          | :4           | 9           | AVG T        | emp            | °c       | 4        |       |             |         |                                  |                               |           |
|                 | rix: <b>S</b> - Soil, <b>Sd</b> - S |           |                      |                                            |                                                                                                 | Containe      |         |                            |              |             |              |                |          |          |       |             |         |                                  |                               |           |
|                 |                                     |           |                      |                                            | unless other arrangements are made.—Hazard<br>pratory with this COC. The liability of the labor |               |         |                            |              |             |              |                |          | client e | expen | ise. Th     | ne repo | rt for the                       | analysis of                   | the above |



Printed: 2/2/2024 5:04:23PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Client:      | Matador Resources, LLC.                                                       | Date Received:     | 02/01/24 | 08:46               | Work Order ID: | E402003        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------|--------------------|----------|---------------------|----------------|----------------|
| Table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Phone:       | (972) 371-5200                                                                | Date Logged In:    | 02/01/24 | 08:46               | Logged In By:  | Alexa Michaels |
| 1. Does the sample ID match the COC? 2. Does the number of samplies per sampling site location match the COC 3. Were all smalls or or carrier? 4. Wish the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received with boding inner 6. Note: Analysis, such as pH which should be conducted in the field, i.e. 15 minute bold time, are not included in the discussion.  Samuel Trun Around Time ITAT  O Lid the COC indicate standard TAT, or Expedited TAT?  7. Was a sample cooler received in good condition? 7. Was a sample cooler received in good condition? 7. Was a sample cooler received in good condition? 7. Was the sample(s) received intact, i.e., not broken? 7. Was the sample(s) received intact, i.e., not broken? 7. Was the sample cooler received in soci or capital, if samples are received wit 15 minutes of sampling 7. Was the sample received an ice? If yes, the recorded temp is 4°C, i.e., 6°a2°C 7. Was the sample received in sice? If yes, the recorded temp is 4°C, i.e., 6°a2°C 7. Was the sample received in the information of sampling 7. If no visible ice, record the temperature. Actual sample temperature: \$\frac{1}{2}\$C 7. Actual sample condition in the original processor? 7. Was a trip blank (TB) included for VOC analyses? 8. No | Email:       |                                                                               |                    | 02/06/24 | 17:00 (3 day TAT)   | ,              |                |
| 1. Does the sample ID match the COC? 2. Does the number of samplies per sampling site location match the COC 3. Were all smalls or or carrier? 4. Wish the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received with boding inner 6. Note: Analysis, such as pH which should be conducted in the field, i.e. 15 minute bold time, are not included in the discussion.  Samuel Trun Around Time ITAT  O Lid the COC indicate standard TAT, or Expedited TAT?  7. Was a sample cooler received in good condition? 7. Was a sample cooler received in good condition? 7. Was a sample cooler received in good condition? 7. Was the sample(s) received intact, i.e., not broken? 7. Was the sample(s) received intact, i.e., not broken? 7. Was the sample cooler received in soci or capital, if samples are received wit 15 minutes of sampling 7. Was the sample received an ice? If yes, the recorded temp is 4°C, i.e., 6°a2°C 7. Was the sample received in sice? If yes, the recorded temp is 4°C, i.e., 6°a2°C 7. Was the sample received in the information of sampling 7. If no visible ice, record the temperature. Actual sample temperature: \$\frac{1}{2}\$C 7. Actual sample condition in the original processor? 7. Was a trip blank (TB) included for VOC analyses? 8. No |              |                                                                               |                    |          |                     |                |                |
| 2. Does the number of samples per sampling site location match the COC 4. Was the COC complete, i.e., signatures, datestimes, requested analyses? 5. Were all samples received within holding time? 6. Note changis, such as play which should be conducted in the field, i.e. 15 minute hold time, are not included in this discussion.  Sample Furn Around Time CTAT 7. Did the COC indicate standard TAT, or Expedited TAT? 8. If yes, was cooler received? 7. Was a sample cooler received? 8. If yes, was cooler received? 9. Was the sample sorder received in good condition? 9. Was the sample sorder received in good condition? 9. Was the sample sorder received in good condition? 10. Were custody/security seals present? 10. Were custody/security seals intact? 11. If yes, were custody/security seals intact? 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received wil 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C 15. Are VOC samples collected in VOA Vials? 16. Is the head space leas than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 19. Is the appropriate volume/weight or number of sample containers collected? 19. Ower field sample labels filled out with the minimum information:  Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? 22. Are sample(s) correctly preserved? 23. Are sample shape have more than one phase, i.e., multiphase? 24. Is lab filteration required and or requested for dissolved metals? 25. Are sample have more than one phase, i.e., multiphase? 26. Lose the sample have more than one phase, i.e., multiphase? 27. If yes, does the COC specify which phase(s) is to be analyzed? 28. Are samples exquired to get sent to a subcontract laboratory? 29. Was a subcontract Laboratory specified by the client and if so who?  No                                                                                          | Chain of     | Custody (COC)                                                                 |                    |          |                     |                |                |
| 3. Were samples dropped off by client or earnier? 4. Was the COC complete, i.e., signatures, distributes, requested analyses? 5. Were all samples received within holding time? 5. Were all samples received within holding time? 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample condear received? 7. Was a sample conder received? 7. Was a sample conder received? 8. Were controlled by the samples present? 8. Were controlled by the samples of sample time? 9. Was the sample (s) received intact, i.e., not broken? 9. Was the sample (s) received intact, i.e., not broken? 9. Was the sample coil or ice? If yes, the recorded temp is 4°C, i.e., 6°22°C. 9. Note the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°22°C. 9. Note the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°22°C. 9. Note the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°22°C. 9. Note the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°22°C. 9. Note the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°22°C. 9. Note the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°22°C. 9. Note the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°22°C. 9. Note the sample of samples are received will to minute of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C.  8. Sample Container. 14. Are aqueous VOC samples persent? 15. Are VOC samples collected in VOA Visils? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (IB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the paperprint volume-weight or number of sample containers collecte? 29. Less the sample have more than one phase, i.e., multiphase? 20. Were fall sample labels filled out with the minimum information: 21. Does the COC or field labels indicate the samples were preserved? 22. Are sampled, overethy preserved? 23. Less the COC or field labels indicate the    | 1. Does t    | he sample ID match the COC?                                                   |                    | Yes      |                     |                |                |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses?  5. Were all samples received within holding time?  Note analysis, and he pff which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.  Sample Term Around Time (TXI)  5. Did the COC indicates standard TAT, or Expedited TAT?  7. Was a sample cooler received?  8. If yes, was cooler received in good condition?  9. Was the sample yer ceived mice, i.e., not broken?  10. Were custody/security seals present?  11. If yes, were custody/security seals intact?  12. Was the sample received on it is of yes, the recorded temp is 4% i.e., 6*22°C  Note: Thermal preservation is not required, if samples are received wis 15 minutes of sampling.  13. If no visible ice, record the temperature. Actual sample temperature: 4°C  Sample Container.  14. Are aqueous VOC samples present?  15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pen sized or less)?  17. Was a trib bank (T8) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/veight or number of sample containers collected?  19. Is the appropriate volume/veight or number of sample containers collected?  19. Date Time Collected?  10. Does the COC or field labels indicate the samples were preserved?  No  Sample Preservation.  21. Does the COC or field labels indicate the samples were preserved?  No  Multiphase Sample Marrix  22. Are sample(s) correctly preserved?  No  Multiphase Sample Marrix  23. Are samples copiured to get sent to a subcontract laboratory?  24. Sa lab filteration required and/or requested for dissolved metals?  No  Subcontract Laboratory  25. Are sampled sequence of the contract container of the contract Laboratory of the contract    | 2. Does t    | he number of samples per sampling site location ma                            | tch the COC        | Yes      |                     |                |                |
| 5. Were all samples received within holding time? Note Analysis, sales a pit which should be conducted in the field, i.e, 15 minute hold time, are not included in this dissuession.  Samule Turn Around Time (TAT) 6. Did the COol indicate standard TAT, or Expedited TAT?  Yes Sample Cooler 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample (s) received intact, i.e., not broken? 10. Were custody/security scales intact? 11. If yes, were custody/security scales intact? 12. Was the sample received on itse? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Themal preservation is not required if, samples are received win 15 minutes of sampling 13. If no visible i.e., record the temperature: 4°C Sample Container 14. Are auguous VOC samples present? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in VOA Vials? 19. Is the papropriate volume/weight or number of sample containers collected? 20. Were field sample labels filled out with the minimum information: Sample D'P Date/Time Collected? Collectors name? 21. Does the COC or field labels indicate the samples were preserved? 22. Are samplely-go orrectly preserved? 33. Na 34. All filteration required and/or requested for dissolved metals? 34. Is all filteration required and/or requested for dissolved metals? 35. Na 36. All filteration required and/or requested for dissolved metals? 36. Does the sample have more than one phase, i.e., multiphase? 37. If yes, does the COC specify which phase(s) is to be analyzed? 38. Are samples required to get sent to a subcontract laboratory? 39. Was a subcontract Laboratory, specified by the client and if so who? 39. Was a subcontract Laboratory specified by the client and if so who? 30. Subcontract Lab: NA                                                                                                                                                                                                | 3. Were s    | amples dropped off by client or carrier?                                      |                    | Yes      | Carrier: Courier    |                |                |
| Note: Analysis, such as pill which should be conducted in the field, it., 15 minute hold time, are not included in this discussion.  Sample Lorn Around Time (TAT)  O bid the COC indicat standard TAT, or Expedited TAT?  Yes  Sample Cooler  Nasa sample cooler received?  Ness assample cooler received in good condition?  Ness the sample(s) received intact, i.e., not broken?  Ness the sample(s) received intact, i.e., not broken?  Ness the sample(s) received intact, i.e., not broken?  Ness the sample fevered on ice' If yes, the recorded temp is 4°C, i.e., 6°±2°C  Note: Themal preservation is not required, if samples are received wil 15 minutes of sampling into strain sample from the samples are received wil 15 minutes of sampling  13. If no visible ice, record the temperature. Actual sample temperature: 4°C  Sample Container  14. Are aqueous VOC samples present?  No  15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  NA  17. Was a trip blank (TB) included for VOC analyses?  NA  18. Are non-VOC samples collected in the correct containers?  Yes  Field Label  20. Were field sample labels filled out with the minimum information:  Sample D'C  Collectors name?  Na  Sam   | 4. Was th    | e COC complete, i.e., signatures, dates/times, reque                          | sted analyses?     | Yes      |                     |                |                |
| Sample Curin Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 7. Was a sample cooler received in good condition? 8. If yes, was cooler received in good condition? 9. Was the sample (S) received in good condition? 10. Were custody/security seals present? 11. If yes, were custody/security seals intact? 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°a2°C Now: Thermal preservation is not required, If samples are received wit 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C  Sample Container 14. Are aqueous VOC samples present? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pen sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 19. Is the aparopriate volume/weight or number of sample containers collected? 19. Sample ID? 10. Were field sample labels filled out with the minimum information: 10. Sample ID? 11. Sample ID? 12. Dares the COC or field labels indicate the samples were preserved? 13. Is lab filteration required and/or requested for dissolved metals? 14. Is a sample (S) correctly preserved? 15. Is lab filteration required and/or requested for dissolved metals? 16. Is the sample was a sample have more than one phase, i.e., multiphase? 17. If yes, does the COC specify which phase(s) is to be analyzed? 18. Are samples required to get sent to a subcontract laboratory? 18. Are samples required to get sent to a subcontract laboratory? 19. Are samples required to get sent to a subcontract laboratory? 20. Was a subcontract Laboratory specified by the client and if so who? 21. Was a subcontract Laboratory specified by the client and if so who? 22. Are samples required to get sent to a subcontract laboratory? 23. Are samples required to get sent to a subcontract laboratory specified by the client and if so who? 24. If yes, does the COC specify which phase(e) in the client and if so who? 25. Subcontract Laboratory 26. Was a sub   | 5. Were a    | Note: Analysis, such as pH which should be conducted i                        |                    | Yes      |                     | Comment        | ts/Resolution  |
| 6. Did the COC indicate standard TAT, or Expedited TAT?  Sample Cooler  7. Was a sample cooler received?  8. If yes, was cooler received in good condition?  9. Was the sample(s) received in good condition?  10. Were custody/security seals present?  11. If yes, were custody/security seals present?  11. If yes, were custody/security seals intact?  12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°42°C  Not: Thermal preservation is not required, if samples are received wif 15 minutes of sampling  13. If no visible ice, record the temperature. Actual sample temperature: 4°C  Sample Container  14. Are aqueous VOC samples present?  15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip blank (TB) included for VOC analysse?  19. Is the appropriate volume/weight or number of sample containers of sample containers  19. Is the appropriate volume/weight or number of sample containers collected?  19. Were field sample labels filled out with the minimum information:  Sample ID?  Date/Time Collected?  Collectors name?  No  Sample Preservation.  21. Does the COC or field labels indicate the samples were preserved?  No  Sample Infraction required and/or requested for dissolved metals?  No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase?  No  Subcontract Laboratory.  28. Are samples required to get sent to a subcontract laboratory?  No  Subcontract Laboratory  28. Are samples required of get sent to a subcontract laboratory specified by the client and if so who?  No  Subcontract Laboratory specified by the client and if so who?  No  Subcontract Laboratory specified by the client and if so who?  No  Subcontract Laboratory specified by the client and if so who?  No  Subcontract Laboratory specified by the client and if so who?                                                                                                                                                                                | Sample '     |                                                                               | on.                |          |                     |                |                |
| Sample Cooler 7. Was a sample cooler received? 7. Was a sample cooler received in good condition? 7. Was a sample (so preceived in good condition? 7. Was a sample (so) received intact, i.e., not broken? 7. Was the sample(s) received intact, i.e., not broken? 7. Was the sample (so) received intact, i.e., not broken? 7. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C 7. Note: Thernal preservation is not required, if samples are received wi: 15 minutes of sampling 7. If no visible ice, record the temperature. Actual sample temperature: 4°C 7. Sample Container. 7. Was a trip slank (TB) included for VOC analyses? 7. Was a trip blank (TB) included for VOC analyses? 7. Was a trip blank (TB) included for VOC analyses? 7. Was a trip blank (TB) included for VOC analyses? 7. Was a trip blank (TB) included for VOC analyses? 7. Was a trip blank (TB) included for VOC analyses? 7. Was a trip blank (TB) included for VOC analyses? 8. Was a trip blank (TB) included for VOC analyses? 8. Was a propertial volume/weight or number of sample containers collected? 8. Was a propertial volume/weight or number of sample containers collected? 8. No 8. Collectors name? 8. No 8. Collectors name? 8. No 8. Sample Preservation. 9. No 8. Multiphase Sample Matrix 9. Does the COC or field labels indicate the samples were preserved? 8. No 9. Multiphase Sample Matrix 9. Does the COC specify which phase(s) is to be analyzed? 9. No 8. Subcontract Laboratory 9. Was a subcontract laboratory specified by the client and if so who? 9. No 9. Subcontract Laboratory specified by the client and if so who? 9. No 9. Subcontract Laboratory specified by the client and if so who? 9. No 9. Subcontract Laboratory specified by the client and if so who? 9. No 9. Subcontract Laboratory specified by the client and if so who? 9. No 9. Subcontract Laboratory specified by the client and if so who? 9. No 9. Subcontract Laboratory specified by the client and if so who? 9. No 9. Subcontract Laboratory specified by the client and if so who? 9. No    |              |                                                                               |                    | Yes      |                     |                |                |
| 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample(s) received intact, i.e., not broken? 10. Were custody/security seals intact? 11. If yes, were custody/security seals intact? 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received win 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C sample container 14. Are aqueous VOC samples present? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume/weight or number of sample containers collected? 20. Were field sample labels filled out with the minimum information: Sample IP? Date/Time Collected? Collectors name? 21. Does the COC or field labels indicate the samples were preserved? 22. Are sample(s) correctly preserved? 33. No  No  No  No  No  No  No  No  No  Sample Preservation. 24. Is lab filleration required and/or requested for dissolved metals? 34. No  No  No  No  No  Sample Reservation 25. Sample hastrix 26. Does the cOC specify which phase(s) is to be analyzed? 35. No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                                                                               |                    |          |                     |                |                |
| 8. If yes, was cooler received in good condition? 9. Was the sample(s) received intact, i.e., not broken? 10. Were custody/security seals present? 11. If yes, were custody/security seals intact? 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received wit 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C 14. Are aqueous VOC samples present? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate Volume/weight or number of sample containers collected? 19. Date field Label 20. Were field sample labels filled out with the minimum information: Sample IDS: Date/Time Collected? Collectors name? 21. Does the COC or field labels indicate the samples were preserved? 22. Are sample(s) correctly preserved? 23. Are samples for equired on get sent to a subcontract laboratory? 24. Are sample sample sample have more than one phase, i.e., multiphase? 25. No Subcontract Laboratory 26. Are samples required to get sent to a subcontract laboratory? 27. If yes, does the COC specify which phase(s) is to be analyzed? 28. Are samples required to get sent to a subcontract laboratory? 29. Was a subcontract Laboratory specified by the client and if so who?  No Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                                                                               |                    | Yes      |                     |                |                |
| 10. Were custody/security seals present?  11. If yes, were custody/security seals intact?  12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Themal preservation is not required, if samples are received wii 15 minutes of sampling  13. If no visible ice, record the temperature. Actual sample temperature: 4°C  Sample Container  14. Are aqueous VOC samples present?  15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip blank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  20. Were field sample labels filled out with the minimum information: Sample ID? Date/Time Collected? Collectors name?  21. Does the COC or field labels indicate the samples were preserved?  22. Are sample(s) correctly preserved?  23. Are sample Marrix  24. Is lab filteration required and/or requested for dissolved metals?  Multiphase Sample Marrix  25. Does the COC specify which phase(s) is to be analyzed?  26. Does the COC specify which phase(s) is to be analyzed?  27. If yes, does the COC specify which phase(s) is to be analyzed?  28. Are samples required to get sent to a subcontract laboratory?  28. Are samples required to get sent to a subcontract laboratory?  29. Was a subcontract Laboratory specified by the client and if so who?  NA Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              | _                                                                             |                    | Yes      |                     |                |                |
| 10. Were custody/security seals present?  11. If yes, were custody/security seals intact?  12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Themal preservation is not required, if samples are received wii 15 minutes of sampling  13. If no visible ice, record the temperature. Actual sample temperature: 4°C  Sample Container  14. Are aqueous VOC samples present?  15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip blank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  20. Were field sample labels filled out with the minimum information: Sample ID? Date/Time Collected? Collectors name?  21. Does the COC or field labels indicate the samples were preserved?  22. Are sample(s) correctly preserved?  23. Are sample Marrix  24. Is lab filteration required and/or requested for dissolved metals?  Multiphase Sample Marrix  25. Does the COC specify which phase(s) is to be analyzed?  26. Does the COC specify which phase(s) is to be analyzed?  27. If yes, does the COC specify which phase(s) is to be analyzed?  28. Are samples required to get sent to a subcontract laboratory?  28. Are samples required to get sent to a subcontract laboratory?  29. Was a subcontract Laboratory specified by the client and if so who?  NA Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 9. Was th    | e sample(s) received intact, i.e., not broken?                                |                    | Ves      |                     |                |                |
| 11. If yes, were custody/security seals intact? 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°22°C Note: Thermal preservation is not required, if samples are received wi 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C  Sample Container 14. Are aqueous VOC samples present? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume/weight or number of sample containers collected? 19. Is the appropriate volume/weight or number of sample containers collected? 20. Were field sample labels filled out with the minimum information: Sample ID? Date/Time Collected? Collectors name? 12. Does the COC or field labels indicate the samples were preserved? No  Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? No 24. Is lab filteration required and/or requested for dissolved metals? No  Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase? 27. If yes, does the COC specify which phase(s) is to be analyzed? No  Sabsontract Laboratory 28. Are samples required to get sent to a subcontract laboratory? No  Subcontract Laboratory 29. Was a subcontract Laboratory specified by the client and if so who? NA  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |                                                                               |                    |          |                     |                |                |
| 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling  13. If no visible ice, record the temperature. Actual sample temperature: 4°C Sample Container  14. Are aqueous VOC samples present?  15. Are VOC samples collected in VOA Vials?  NA  16. Is the head space less than 6-8 mm (pea sized or less)?  NA  17. Was a trip blank (TB) included for VOC analyses?  NA  18. Are non-VOC samples collected in the correct containers?  Yes  19. Is the appropriate volume/weight or number of sample containers collected?  Yes  Field Label  20. Were field sample labels filled out with the minimum information:  Sample ID?  Date/Time Collected?  Collectors name?  No  Sample Preservation  12. Does the COC or field labels indicate the samples were preserved?  NA  21. Is be filteration required and/or requested for dissolved metals?  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase?  No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No  Subcontract Laboratory  29. Was a subcontract laboratory specified by the client and if so who?  No  Subcontract Lab. NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |                                                                               |                    |          |                     |                |                |
| Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling  13. If no visible ice, record the temperature. Actual sample temperature: 4°C  Sample Container  14. Are aqueous VOC samples present?  15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip blank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Date/Time Collected?  10. Obes the COC or field labels indicate the samples were preserved?  21. Does the COC or field labels indicate the samples were preserved?  22. Are sample(s) correctly preserved?  23. Are sample(s) correctly preserved?  24. Is lab filteration required and/or requested for dissolved metals?  25. Does the sample have more than one phase, i.e., multiphase?  26. Does the sample have more than one phase, i.e., multiphase?  27. If yes, does the COC specify which phase(s) is to be analyzed?  28. Are samples required to get sent to a subcontract laboratory?  29. Was a subcontract Laboratory specified by the client and if so who?  NA  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <del>-</del> | · •                                                                           |                    |          |                     |                |                |
| Sample Container  14. Are aqueous VOC samples present?  15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip blank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Were field sample labels filled out with the minimum information:  Sample ID?  Date/Time Collected?  Collectors name?  20. Were field sample labels indicate the samples were preserved?  No  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved?  No  22. Are sample(s) correctly preserved?  No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase?  No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase?  No  No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No  No  Subcontract Laboratory specified by the client and if so who?  NA  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              | Note: Thermal preservation is not required, if samples as minutes of sampling | re received w/i 15 |          |                     |                |                |
| 14. Are aqueous VOC samples present?  15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip blank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Ves  19. Is the appropriate volume/weight or number of sample containers collected?  10. Were field sample labels filled out with the minimum information:  10. Sample ID?  10. Sample Preservation  11. Does the COC of field labels indicate the samples were preserved?  12. Are sample(s) correctly preserved?  13. Is lab filteration required and/or requested for dissolved metals?  14. Is lab filteration required and/or requested for dissolved metals?  15. No  16. Subcontract Laboratory  16. Subcontract Laboratory  17. If yes, does the COC specify which phase(s) is to be analyzed?  18. Are samples required to get sent to a subcontract laboratory?  18. Are samples required to get sent to a subcontract laboratory?  18. Are samples required to get sent to a subcontract laboratory?  18. Are samples required to get sent to a subcontract laboratory?  18. Are samples required to get sent to a subcontract laboratory?  18. As Subcontract Lab: NA                                                                                                                                                                                                                                                                                        |              |                                                                               | e temperature: 4°  | <u>C</u> |                     |                |                |
| 15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip blank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Were field sample labels filled out with the minimum information:  10. Sample ID?  10. Date/Time Collected?  11. Does the COC or field labels indicate the samples were preserved?  12. Does the COC or field labels indicate the samples were preserved?  13. Is lab filteration required and/or requested for dissolved metals?  14. Is lab filteration required and/or requested for dissolved metals?  15. No  16. Multiphase Sample Matrix  17. If yes, does the COC specify which phase(s) is to be analyzed?  18. Are samples required to get sent to a subcontract laboratory?  19. No  10. Subcontract Laboratory  10. No  10. Subcontract Laboratory  10. No  10. Subcontract Laboratory specified by the client and if so who?  18. Are samples required to get sent to a subcontract laboratory?  19. No  19. No  19. No  19. No  19. Subcontract Laboratory specified by the client and if so who?  10. No  10. Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                                                                               |                    |          |                     |                |                |
| 16. Is the head space less than 6-8 mm (pea sized or less)?  NA  17. Was a trip blank (TB) included for VOC analyses?  NA  18. Are non-VOC samples collected in the correct containers?  Yes  19. Is the appropriate volume/weight or number of sample containers collected?  Yes  Field Label  20. Were field sample labels filled out with the minimum information:  Sample ID?  Date/Time Collected?  Collectors name?  No  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved?  NA  24. Is lab filteration required and/or requested for dissolved metals?  No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase?  No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No  No  Subcontract Laboratory specified by the client and if so who?  No  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                                                                               |                    |          |                     |                |                |
| 17. Was a trip blank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Were field sample labels filled out with the minimum information:  Sample ID?  Date/Time Collected?  Collectors name?  10. Does the COC or field labels indicate the samples were preserved?  11. Does the COC or field labels indicate the samples were preserved?  12. Are sample(s) correctly preserved?  13. Is lab filteration required and/or requested for dissolved metals?  14. Is lab filteration required and/or requested for dissolved metals?  15. Does the sample have more than one phase, i.e., multiphase?  16. Does the sample have more than one phase, i.e., multiphase?  17. If yes, does the COC specify which phase(s) is to be analyzed?  18. Are samples required to get sent to a subcontract laboratory?  18. Are samples required to get sent to a subcontract laboratory?  18. Are samples required to get sent to a subcontract laboratory?  19. No  No  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              | _                                                                             |                    |          |                     |                |                |
| 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume/weight or number of sample containers collected?  Field Label 20. Were field sample labels filled out with the minimum information:  Sample ID?  Date/Time Collected?  Collectors name?  No  Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? 22. Are sample(s) correctly preserved? 23. Is lab filteration required and/or requested for dissolved metals?  Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase?  No  Multiphase Sample Matrix 26. Does the cock specify which phase(s) is to be analyzed?  No  Subcontract Laboratory 28. Are samples required to get sent to a subcontract laboratory? No  No  Subcontract Laboratory specified by the client and if so who?  No  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |                                                                               |                    |          |                     |                |                |
| 19. Is the appropriate volume/weight or number of sample containers collected?  Field Label  20. Were field sample labels filled out with the minimum information: Sample ID? Sample ID? Sample Gollected? Collectors name? No  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? No  Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase? No  Multiphase COC specify which phase(s) is to be analyzed? No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory? No  No Subcontract Laboratory specified by the client and if so who? No Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                                               | _                  |          |                     |                |                |
| Field Label  20. Were field sample labels filled out with the minimum information: Sample ID? Date/Time Collected? No Collectors name? No  Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? No Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase? No Tifyes, does the COC specify which phase(s) is to be analyzed? No Subcontract Laboratory No Subcontract Laboratory No Subcontract Laboratory No Subcontract Laboratory specified by the client and if so who? No Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                                                                               |                    |          |                     |                |                |
| 20. Were field sample labels filled out with the minimum information: Sample ID? Yes Date/Time Collected? Collectors name? No  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? No  41. Is lab filteration required and/or requested for dissolved metals? No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase? No  71. If yes, does the COC specify which phase(s) is to be analyzed? NA  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory? No  99. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                                                               | ners collected?    | Yes      |                     |                |                |
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| Sample Preservation  21. Does the COC or field labels indicate the samples were preserved?  22. Are sample(s) correctly preserved?  23. Is lab filteration required and/or requested for dissolved metals?  24. Is lab filteration required and/or requested for dissolved metals?  25. Does the sample Matrix  26. Does the sample have more than one phase, i.e., multiphase?  27. If yes, does the COC specify which phase(s) is to be analyzed?  No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No  No  Subcontract Laboratory specified by the client and if so who?  NA  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                                                                               |                    |          |                     |                |                |
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| Client Instruction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 29. Was a    | a subcontract laboratory specified by the client and i                        | f so who?          | NA       | Subcontract Lab: NA |                |                |
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Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Charlie Sweeney Fed TB

Work Order: E402007

Job Number: 23052-0001

Received: 2/1/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 2/13/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/13/24

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Charlie Sweeney Fed TB

Workorder: E402007

Date Received: 2/1/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/1/2024 8:00:00AM, under the Project Name: Charlie Sweeney Fed TB.

The analytical test results summarized in this report with the Project Name: Charlie Sweeney Fed TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Laboratory Administrator Office: 505-632-1881

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## **Sample Summary**

Matador Resources, LLC.Project Name:Charlie Sweeney Fed TBReported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo02/13/24 15:29

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| FS01 - 2'        | E402007-01A   | Soil   | 01/29/24 | 02/01/24 | Glass Jar, 2 oz. |
| FS02 - 2'        | E402007-02A   | Soil   | 01/29/24 | 02/01/24 | Glass Jar, 2 oz. |
| FS03 - 2'        | E402007-03A   | Soil   | 01/29/24 | 02/01/24 | Glass Jar, 2 oz. |
| FS04 - 2'        | E402007-04A   | Soil   | 01/29/24 | 02/01/24 | Glass Jar, 2 oz. |
| FS05 - 2'        | E402007-05A   | Soil   | 01/29/24 | 02/01/24 | Glass Jar, 2 oz. |
| FS06 - 2'        | E402007-06A   | Soil   | 01/29/24 | 02/01/24 | Glass Jar, 2 oz. |
| FS07 - 2'        | E402007-07A   | Soil   | 01/29/24 | 02/01/24 | Glass Jar, 2 oz. |
| FS08 - 2'        | E402007-08A   | Soil   | 01/29/24 | 02/01/24 | Glass Jar, 2 oz. |
| FS16 - 2'        | E402007-09A   | Soil   | 01/29/24 | 02/01/24 | Glass Jar, 2 oz. |
| FS17 - 2'        | E402007-10A   | Soil   | 01/29/24 | 02/01/24 | Glass Jar, 2 oz. |
| FS24 - 2'        | E402007-11A   | Soil   | 01/29/24 | 02/01/24 | Glass Jar, 2 oz. |
| FS25 - 2'        | E402007-12A   | Soil   | 01/29/24 | 02/01/24 | Glass Jar, 2 oz. |
| FS29 - 2'        | E402007-13A   | Soil   | 01/29/24 | 02/01/24 | Glass Jar, 2 oz. |
| FS31 - 2'        | E402007-14A   | Soil   | 01/29/24 | 02/01/24 | Glass Jar, 2 oz. |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/13/2024 3:29:02PM |

#### FS01 - 2' E402007-01

|        | E402007-01                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Result |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Prepared                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Analyzed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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|        | 93.0 %                           | 70-130                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| mg/kg  | mg/kg                            | Anal                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | yst: BA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Batch: 2406110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ND     | 20.0                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        | 91.4 %                           | 70-130                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| mg/kg  | mg/kg                            | Anal                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | yst: KM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Batch: 2406109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ND     | 25.0                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ND     | 50.0                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        | 92.7 %                           | 50-200                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| mg/kg  | mg/kg                            | Anal                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | yst: RAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Batch: 2406111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 835    | 200                              | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        | ND ND ND Mg/kg ND mg/kg ND mg/kg | Result         Reporting           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           mg/kg         mg/kg           Mg/kg         mg/kg           ND         20.0           91.4 %         mg/kg           ND         25.0           ND         50.0           92.7 %         mg/kg           mg/kg         mg/kg | Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Analy           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           MD         0.0250         1           93.0 %         70-130         70-130           mg/kg         mg/kg         Analy           ND         20.0         1           91.4 %         70-130           mg/kg         mg/kg         Analy           ND         25.0         1           ND         50.0         1           92.7 %         50-200           mg/kg         Mg/kg         Analy | Reporting           Result         Limit         Dilution         Prepared           mg/kg         Analyst: BA           ND         0.0250         1         02/09/24           ND         0.0250         1         02/09/24           ND         0.0250         1         02/09/24           ND         0.0250         1         02/09/24           ND         0.0500         1         02/09/24           ND         0.0250         1         02/09/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         02/09/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         02/09/24           ND         50.0         1         02/09/24           ND         50.0         1         02/09/24           ND         50.0         1         02/09/24           Mg/kg         Mg/kg         Analyst: RAS | Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         02/09/24         02/10/24           ND         0.0250         1         02/09/24         02/10/24           ND         0.0250         1         02/09/24         02/10/24           ND         0.0500         1         02/09/24         02/10/24           ND         0.0250         1         02/09/24         02/10/24           ND         0.0250         1         02/09/24         02/10/24           MD         0.0250         1         02/09/24         02/10/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         02/09/24         02/10/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         02/09/24         02/10/24           ND         50.0         1         02/09/24         02/09/24           ND         50.0         1         02/09/24         02/09/24           ND         50.0         1         02/09/24 |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/13/2024 3:29:02PM |

FS02 - 2'

| E402007-02                                     |        |           |          |          |          |                |
|------------------------------------------------|--------|-----------|----------|----------|----------|----------------|
|                                                |        | Reporting |          |          |          |                |
| Analyte                                        | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg     | Anal     | yst: BA  |          | Batch: 2406110 |
| Benzene                                        | ND     | 0.0250    | 1        | 02/09/24 | 02/10/24 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1        | 02/09/24 | 02/10/24 |                |
| Toluene                                        | ND     | 0.0250    | 1        | 02/09/24 | 02/10/24 |                |
| o-Xylene                                       | ND     | 0.0250    | 1        | 02/09/24 | 02/10/24 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1        | 02/09/24 | 02/10/24 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1        | 02/09/24 | 02/10/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 92.5 %    | 70-130   | 02/09/24 | 02/10/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | Anal     | yst: BA  |          | Batch: 2406110 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1        | 02/09/24 | 02/10/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 91.9 %    | 70-130   | 02/09/24 | 02/10/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | Anal     | yst: KM  |          | Batch: 2406109 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1        | 02/09/24 | 02/09/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1        | 02/09/24 | 02/09/24 |                |
| Surrogate: n-Nonane                            |        | 93.0 %    | 50-200   | 02/09/24 | 02/09/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | Anal     | yst: RAS |          | Batch: 2406111 |
| Chloride                                       | 1170   | 200       | 10       | 02/09/24 | 02/09/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/13/2024 3:29:02PM |

## FS03 - 2'

| E402007-03                                     |        |           |          |          |          |                |
|------------------------------------------------|--------|-----------|----------|----------|----------|----------------|
|                                                |        | Reporting |          |          |          |                |
| Analyte                                        | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg     | Analy    | yst: BA  |          | Batch: 2406110 |
| Benzene                                        | ND     | 0.0250    | 1        | 02/09/24 | 02/10/24 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1        | 02/09/24 | 02/10/24 |                |
| Toluene                                        | ND     | 0.0250    | 1        | 02/09/24 | 02/10/24 |                |
| o-Xylene                                       | ND     | 0.0250    | 1        | 02/09/24 | 02/10/24 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1        | 02/09/24 | 02/10/24 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1        | 02/09/24 | 02/10/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 92.9 %    | 70-130   | 02/09/24 | 02/10/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | Analy    | yst: BA  |          | Batch: 2406110 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1        | 02/09/24 | 02/10/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 91.6%     | 70-130   | 02/09/24 | 02/10/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | Analy    | yst: KM  |          | Batch: 2406109 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1        | 02/09/24 | 02/09/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1        | 02/09/24 | 02/09/24 |                |
| Surrogate: n-Nonane                            |        | 94.6 %    | 50-200   | 02/09/24 | 02/09/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | Analy    | yst: RAS |          | Batch: 2406111 |
| Chloride                                       | 2090   | 200       | 10       | 02/09/24 | 02/09/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/13/2024 3:29:02PM |

#### FS04 - 2' E402007-04

|                                                |        | E402007-04         |          |          |                                         |                |
|------------------------------------------------|--------|--------------------|----------|----------|-----------------------------------------|----------------|
| Analyte                                        | Result | Reporting<br>Limit | Dilution | Prepared | Analyzed                                | Notes          |
| That ye                                        | resur  | 2                  |          | •        | 111111111111111111111111111111111111111 |                |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg              | Analy    | st: RKS  |                                         | Batch: 2406110 |
| Benzene                                        | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24                                |                |
| Ethylbenzene                                   | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24                                |                |
| Toluene                                        | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24                                |                |
| o-Xylene                                       | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24                                |                |
| p,m-Xylene                                     | ND     | 0.0500             | 1        | 02/09/24 | 02/10/24                                |                |
| Total Xylenes                                  | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24                                |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 93.5 %             | 70-130   | 02/09/24 | 02/10/24                                |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg              | Analy    | st: RKS  |                                         | Batch: 2406110 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0               | 1        | 02/09/24 | 02/10/24                                |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 92.1 %             | 70-130   | 02/09/24 | 02/10/24                                |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg              | Analy    | st: KM   |                                         | Batch: 2406109 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0               | 1        | 02/09/24 | 02/12/24                                |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0               | 1        | 02/09/24 | 02/12/24                                |                |
| Surrogate: n-Nonane                            |        | 84.5 %             | 50-200   | 02/09/24 | 02/12/24                                |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg              | Analy    | st: RAS  |                                         | Batch: 2406111 |
| Chloride                                       | 1430   | 200                | 10       | 02/09/24 | 02/09/24                                |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/13/2024 3:29:02PM |

FS05 - 2' E402007-05

|                                                |        | E402007-03         |          |          |            |                |
|------------------------------------------------|--------|--------------------|----------|----------|------------|----------------|
| Analyte                                        | Result | Reporting<br>Limit | Dilution | Prepared | Analyzed   | Notes          |
| Tillelyee                                      | resuit | Emit               | Bilation | Trepared | 7 Hary Zea | rotes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg              | Analy    | st: RKS  |            | Batch: 2406110 |
| Benzene                                        | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24   |                |
| Ethylbenzene                                   | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24   |                |
| Toluene                                        | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24   |                |
| o-Xylene                                       | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24   |                |
| p,m-Xylene                                     | ND     | 0.0500             | 1        | 02/09/24 | 02/10/24   |                |
| Total Xylenes                                  | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24   |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 93.4 %             | 70-130   | 02/09/24 | 02/10/24   |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg              | Analy    | st: RKS  |            | Batch: 2406110 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0               | 1        | 02/09/24 | 02/10/24   |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 91.7 %             | 70-130   | 02/09/24 | 02/10/24   |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg              | Analy    | st: KM   |            | Batch: 2406109 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0               | 1        | 02/09/24 | 02/09/24   |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0               | 1        | 02/09/24 | 02/09/24   |                |
| Surrogate: n-Nonane                            |        | 95.9 %             | 50-200   | 02/09/24 | 02/09/24   |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg              | Analy    | st: RAS  |            | Batch: 2406111 |
| Chloride                                       | 996    | 200                | 10       | 02/09/24 | 02/09/24   |                |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/13/2024 3:29:02PM |

#### FS06 - 2' E402007-06

| Result | Reporting<br>Limit                              | Dilution                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Prepared                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Analyzed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mg/kg  | mg/kg                                           | Analy                                                                                                                                                                                                                                                                                                                                                                                                                                                           | vst: RKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Batch: 2406110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ND     | 0.0250                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0250                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0250                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0250                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0500                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0250                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | 93.4 %                                          | 70-130                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| mg/kg  | mg/kg                                           | Analy                                                                                                                                                                                                                                                                                                                                                                                                                                                           | st: RKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Batch: 2406110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ND     | 20.0                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | 91.8 %                                          | 70-130                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| mg/kg  | mg/kg                                           | Analy                                                                                                                                                                                                                                                                                                                                                                                                                                                           | vst: KM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Batch: 2406109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ND     | 25.0                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 50.0                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | 95.3 %                                          | 50-200                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| mg/kg  | mg/kg                                           | Analy                                                                                                                                                                                                                                                                                                                                                                                                                                                           | /st: RAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Batch: 2406111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 1880   | 200                                             | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg | Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         0.0250           93.4 %         mg/kg           MD         20.0           91.8 %         mg/kg           ND         25.0           ND         50.0           95.3 %         mg/kg           mg/kg         mg/kg | Result         Limit         Dilution           mg/kg         mg/kg         Analy           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           MD         0.0250         1           MD         0.0250         1           MD         20.0250         1           Mg/kg         mg/kg         Analy           MD         20.0         1           Mg/kg         mg/kg         Analy           ND         25.0         1           ND         50.0         1           95.3 %         50-200           mg/kg         mg/kg         Analy | Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         02/09/24           ND         0.0250         1         02/09/24           ND         0.0250         1         02/09/24           ND         0.0250         1         02/09/24           ND         0.0500         1         02/09/24           ND         0.0250         1         02/09/24           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         02/09/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         02/09/24           ND         50.0         1         02/09/24           ND         50.0         1         02/09/24           Mg/kg         Mg/kg         Analyst: RAS         Analyst: RAS | Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         02/09/24         02/10/24           ND         0.0250         1         02/09/24         02/10/24           ND         0.0250         1         02/09/24         02/10/24           ND         0.0500         1         02/09/24         02/10/24           ND         0.0500         1         02/09/24         02/10/24           ND         0.0250         1         02/09/24         02/10/24           ND         0.0250         1         02/09/24         02/10/24           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         02/09/24         02/10/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         02/09/24         02/10/24           ND         50.0         1         02/09/24         02/10/24           ND         50.0         1         02/09/24         02/10/24           ND         50.0         1         02/09/24         02/10/24           < |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/13/2024 3:29:02PM |

FS07 - 2' E402007-07

|                                                |        | E402007-07         |          |          |                                         |                |
|------------------------------------------------|--------|--------------------|----------|----------|-----------------------------------------|----------------|
| Analyte                                        | Result | Reporting<br>Limit | Dilution | Prepared | Analyzed                                | Notes          |
| That ye                                        | resur  | 2                  |          | *        | 111111111111111111111111111111111111111 |                |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg              | Analy    | st: RKS  |                                         | Batch: 2406110 |
| Benzene                                        | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24                                |                |
| Ethylbenzene                                   | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24                                |                |
| Toluene                                        | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24                                |                |
| o-Xylene                                       | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24                                |                |
| p,m-Xylene                                     | ND     | 0.0500             | 1        | 02/09/24 | 02/10/24                                |                |
| Total Xylenes                                  | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24                                |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 93.7 %             | 70-130   | 02/09/24 | 02/10/24                                |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg              | Analy    | st: RKS  |                                         | Batch: 2406110 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0               | 1        | 02/09/24 | 02/10/24                                |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 92.0 %             | 70-130   | 02/09/24 | 02/10/24                                |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg              | Analy    | st: KM   |                                         | Batch: 2406109 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0               | 1        | 02/09/24 | 02/10/24                                |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0               | 1        | 02/09/24 | 02/10/24                                |                |
| Surrogate: n-Nonane                            |        | 95.9 %             | 50-200   | 02/09/24 | 02/10/24                                |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg              | Analy    | st: RAS  |                                         | Batch: 2406111 |
| Chloride                                       | 1960   | 200                | 10       | 02/09/24 | 02/09/24                                |                |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/13/2024 3:29:02PM |

#### FS08 - 2' E402007-08

|                                                |        | E402007-08         |          |          |           |                |
|------------------------------------------------|--------|--------------------|----------|----------|-----------|----------------|
| Analyte                                        | Result | Reporting<br>Limit | Dilution | Prepared | Analyzed  | Notes          |
| Analyte                                        | Resuit | Lillit             | Dilution | Frepareu | Allalyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg              | Analys   | st: RKS  |           | Batch: 2406110 |
| Benzene                                        | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24  |                |
| Ethylbenzene                                   | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24  |                |
| Toluene                                        | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24  |                |
| o-Xylene                                       | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24  |                |
| p,m-Xylene                                     | ND     | 0.0500             | 1        | 02/09/24 | 02/10/24  |                |
| Total Xylenes                                  | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24  |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 94.4 %             | 70-130   | 02/09/24 | 02/10/24  |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg              | Analys   | st: RKS  |           | Batch: 2406110 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0               | 1        | 02/09/24 | 02/10/24  |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 91.5 %             | 70-130   | 02/09/24 | 02/10/24  |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg              | Analys   | st: KM   |           | Batch: 2406109 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0               | 1        | 02/09/24 | 02/10/24  |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0               | 1        | 02/09/24 | 02/10/24  |                |
| Surrogate: n-Nonane                            |        | 95.7 %             | 50-200   | 02/09/24 | 02/10/24  |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg              | Analys   | st: RAS  |           | Batch: 2406111 |
| Chloride                                       | 1050   | 200                | 10       | 02/09/24 | 02/09/24  |                |
|                                                |        |                    |          |          |           |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/13/2024 3:29:02PM |

#### FS16 - 2' E402007-09

|                                                |        | E-102007-07        |          |          |          |                |
|------------------------------------------------|--------|--------------------|----------|----------|----------|----------------|
| Analyte                                        | Result | Reporting<br>Limit | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg              | Analy    | st: RKS  |          | Batch: 2406110 |
| Benzene                                        | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24 |                |
| Ethylbenzene                                   | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24 |                |
| Toluene                                        | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24 |                |
| o-Xylene                                       | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24 |                |
| p,m-Xylene                                     | ND     | 0.0500             | 1        | 02/09/24 | 02/10/24 |                |
| Total Xylenes                                  | ND     | 0.0250             | 1        | 02/09/24 | 02/10/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 93.9 %             | 70-130   | 02/09/24 | 02/10/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg              | Analy    | st: RKS  |          | Batch: 2406110 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0               | 1        | 02/09/24 | 02/10/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 91.6 %             | 70-130   | 02/09/24 | 02/10/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg              | Analy    | st: KM   |          | Batch: 2406109 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0               | 1        | 02/09/24 | 02/10/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0               | 1        | 02/09/24 | 02/10/24 |                |
| Surrogate: n-Nonane                            |        | 93.3 %             | 50-200   | 02/09/24 | 02/10/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg              | Analy    | st: RAS  |          | Batch: 2406111 |
| Chloride                                       | 1210   | 200                | 10       | 02/09/24 | 02/09/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/13/2024 3:29:02PM |

#### FS17 - 2' E402007-10

|        | 1.402007 10                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Result | Reporting<br>Limit                                 | Dilution                                                                                                                                                                                                                                                                                                                                                                                                                        | Prepared                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Analyzed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| mg/kg  | mg/kg                                              | Analy                                                                                                                                                                                                                                                                                                                                                                                                                           | st: RKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Batch: 2406110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ND     | 0.0250                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0250                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0250                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0250                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0500                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0250                                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | 93.3 %                                             | 70-130                                                                                                                                                                                                                                                                                                                                                                                                                          | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| mg/kg  | mg/kg                                              | Analy                                                                                                                                                                                                                                                                                                                                                                                                                           | st: RKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Batch: 2406110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ND     | 20.0                                               | 1                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | 91.7 %                                             | 70-130                                                                                                                                                                                                                                                                                                                                                                                                                          | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| mg/kg  | mg/kg                                              | Analy                                                                                                                                                                                                                                                                                                                                                                                                                           | st: KM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Batch: 2406109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ND     | 25.0                                               | 1                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 50.0                                               | 1                                                                                                                                                                                                                                                                                                                                                                                                                               | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | 104 %                                              | 50-200                                                                                                                                                                                                                                                                                                                                                                                                                          | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| mg/kg  | mg/kg                                              | Analy                                                                                                                                                                                                                                                                                                                                                                                                                           | st: RAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Batch: 2406111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 890    | 200                                                | 10                                                                                                                                                                                                                                                                                                                                                                                                                              | 02/09/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | mg/kg ND Mg/kg ND mg/kg | Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         0.0250           MD         20.0           91.7 %         mg/kg           MD         25.0           ND         50.0           104 %         mg/kg           mg/kg         mg/kg | mg/kg         mg/kg         Analy           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           mg/kg         mg/kg         Analy           ND         20.0         1           91.7 %         70-130           mg/kg         mg/kg         Analy           ND         25.0         1           ND         50.0         1           104 %         50-200           mg/kg         mg/kg         Analy | Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         02/09/24           ND         0.0250         1         02/09/24           ND         0.0250         1         02/09/24           ND         0.0500         1         02/09/24           ND         0.0250         1         02/09/24           ND         0.0250         1         02/09/24           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         02/09/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         02/09/24           ND         25.0         1         02/09/24           ND         50.0         1         02/09/24           ND         50.0         1         02/09/24           Mg/kg         mg/kg         Analyst: RAS | Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         02/09/24         02/10/24           ND         0.0250         1         02/09/24         02/10/24           ND         0.0250         1         02/09/24         02/10/24           ND         0.0500         1         02/09/24         02/10/24           ND         0.0250         1         02/09/24         02/10/24           ND         0.0250         1         02/09/24         02/10/24           ND         0.0250         1         02/09/24         02/10/24           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         02/09/24         02/10/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         02/09/24         02/10/24           ND         25.0         1         02/09/24         02/10/24           ND         50.0         1         02/09/24         02/10/24           ND         50.0         1         02/09/24         02/10/24           < |

Oil Range Organics (C28-C36)

Anions by EPA 300.0/9056A

Surrogate: n-Nonane

Chloride

## **Sample Data**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/13/2024 3:29:02PM |

FS24 - 2' E402007-11

|                                                |        | Reporting |          |           |          |                |
|------------------------------------------------|--------|-----------|----------|-----------|----------|----------------|
| Analyte                                        | Result | Limit     | Dilution | Prepared  | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg     | Anal     | lyst: RKS |          | Batch: 2406110 |
| Benzene                                        | ND     | 0.0250    | 1        | 02/09/24  | 02/10/24 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1        | 02/09/24  | 02/10/24 |                |
| Toluene                                        | ND     | 0.0250    | 1        | 02/09/24  | 02/10/24 |                |
| o-Xylene                                       | ND     | 0.0250    | 1        | 02/09/24  | 02/10/24 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1        | 02/09/24  | 02/10/24 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1        | 02/09/24  | 02/10/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 93.2 %    | 70-130   | 02/09/24  | 02/10/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | Anal     | lyst: RKS |          | Batch: 2406110 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1        | 02/09/24  | 02/10/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 91.8 %    | 70-130   | 02/09/24  | 02/10/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | Anal     | lyst: KM  |          | Batch: 2406109 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1        | 02/09/24  | 02/10/24 |                |

50.0

200

50-200

100 %

02/09/24

02/09/24

02/09/24

Analyst: RAS

10

02/10/24

02/10/24

02/10/24

Batch: 2406111

ND

mg/kg

1000

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/13/2024 3:29:02PM |

FS25 - 2'

|                                                |        | E402007-12 |          |          |          |                |
|------------------------------------------------|--------|------------|----------|----------|----------|----------------|
| Reporting                                      |        |            |          |          |          |                |
| Analyte                                        | Result | Limit      | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg      | Analy    | rst: BA  |          | Batch: 2406110 |
| Benzene                                        | ND     | 0.0250     | 1        | 02/09/24 | 02/10/24 |                |
| Ethylbenzene                                   | ND     | 0.0250     | 1        | 02/09/24 | 02/10/24 |                |
| Toluene                                        | ND     | 0.0250     | 1        | 02/09/24 | 02/10/24 |                |
| o-Xylene                                       | ND     | 0.0250     | 1        | 02/09/24 | 02/10/24 |                |
| p,m-Xylene                                     | ND     | 0.0500     | 1        | 02/09/24 | 02/10/24 |                |
| Total Xylenes                                  | ND     | 0.0250     | 1        | 02/09/24 | 02/10/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 93.2 %     | 70-130   | 02/09/24 | 02/10/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg      | Analy    | rst: BA  |          | Batch: 2406110 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0       | 1        | 02/09/24 | 02/10/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 91.1 %     | 70-130   | 02/09/24 | 02/10/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg      | Analy    | st: KM   |          | Batch: 2406109 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0       | 1        | 02/09/24 | 02/10/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0       | 1        | 02/09/24 | 02/10/24 |                |
| Surrogate: n-Nonane                            |        | 105 %      | 50-200   | 02/09/24 | 02/10/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg      | Analy    | st: RAS  |          | Batch: 2406111 |
| Chloride                                       | 783    | 200        | 10       | 02/09/24 | 02/10/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/13/2024 3:29:02PM |

FS29 - 2'

|                                                |        | E402007-13 |          |          |          |                |
|------------------------------------------------|--------|------------|----------|----------|----------|----------------|
|                                                |        | Reporting  |          |          |          |                |
| Analyte                                        | Result | Limit      | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg      | Analy    | yst: BA  |          | Batch: 2406110 |
| Benzene                                        | ND     | 0.0250     | 1        | 02/09/24 | 02/10/24 |                |
| Ethylbenzene                                   | ND     | 0.0250     | 1        | 02/09/24 | 02/10/24 |                |
| Toluene                                        | ND     | 0.0250     | 1        | 02/09/24 | 02/10/24 |                |
| p-Xylene                                       | ND     | 0.0250     | 1        | 02/09/24 | 02/10/24 |                |
| o,m-Xylene                                     | ND     | 0.0500     | 1        | 02/09/24 | 02/10/24 |                |
| Total Xylenes                                  | ND     | 0.0250     | 1        | 02/09/24 | 02/10/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 93.7 %     | 70-130   | 02/09/24 | 02/10/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg      | Analy    | yst: BA  |          | Batch: 2406110 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0       | 1        | 02/09/24 | 02/10/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 91.4 %     | 70-130   | 02/09/24 | 02/10/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg      | Analy    | yst: KM  |          | Batch: 2406109 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0       | 1        | 02/09/24 | 02/10/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0       | 1        | 02/09/24 | 02/10/24 |                |
| Surrogate: n-Nonane                            |        | 97.4 %     | 50-200   | 02/09/24 | 02/10/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg      | Analy    | yst: RAS |          | Batch: 2406111 |
| Chloride                                       | 1320   | 200        | 10       | 02/09/24 | 02/10/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/13/2024 3:29:02PM |

#### FS31 - 2'

|                                                |        | E402007-14 |          |          |          |                |
|------------------------------------------------|--------|------------|----------|----------|----------|----------------|
|                                                |        | Reporting  |          |          |          |                |
| Analyte                                        | Result | Limit      | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 | mg/kg  | mg/kg      | Analy    | st: BA   |          | Batch: 2406110 |
| Benzene                                        | ND     | 0.0250     | 1        | 02/09/24 | 02/10/24 |                |
| Ethylbenzene                                   | ND     | 0.0250     | 1        | 02/09/24 | 02/10/24 |                |
| Toluene                                        | ND     | 0.0250     | 1        | 02/09/24 | 02/10/24 |                |
| o-Xylene                                       | ND     | 0.0250     | 1        | 02/09/24 | 02/10/24 |                |
| p,m-Xylene                                     | ND     | 0.0500     | 1        | 02/09/24 | 02/10/24 |                |
| Total Xylenes                                  | ND     | 0.0250     | 1        | 02/09/24 | 02/10/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 92.8 %     | 70-130   | 02/09/24 | 02/10/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg      | Analy    | st: BA   |          | Batch: 2406110 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0       | 1        | 02/09/24 | 02/10/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 91.7 %     | 70-130   | 02/09/24 | 02/10/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg      | Analy    | st: KM   |          | Batch: 2406109 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0       | 1        | 02/09/24 | 02/10/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0       | 1        | 02/09/24 | 02/10/24 |                |
| Surrogate: n-Nonane                            |        | 96.7 %     | 50-200   | 02/09/24 | 02/10/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg      | Analy    | st: RAS  |          | Batch: 2406111 |
| Chloride                                       | 901    | 200        | 10       | 02/09/24 | 02/10/24 |                |



Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

## **QC Summary Data**

Matador Resources, LLC.Project Name:Charlie Sweeney Fed TBReported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo2/13/20243:29:02PM

| Dallas TX, 75240                    |        | Project Number: Project Manager: |                | 052-0001<br>shley Gioveng | О    |               |              | 2/           | 13/2024 3:29:02PM |  |  |
|-------------------------------------|--------|----------------------------------|----------------|---------------------------|------|---------------|--------------|--------------|-------------------|--|--|
|                                     |        | Volatile Organics by EPA 8021B   |                |                           |      |               |              |              | Analyst: BA       |  |  |
| Analyte                             | Result | Reporting<br>Limit               | Spike<br>Level | Source<br>Result          | Rec  | Rec<br>Limits | RPD          | RPD<br>Limit |                   |  |  |
|                                     | mg/kg  | mg/kg                            | mg/kg          | mg/kg                     | %    | %             | %            | %            | Notes             |  |  |
| Blank (2406110-BLK1)                |        |                                  |                |                           |      | ]             | Prepared: 02 | 2/09/24 Ana  | lyzed: 02/09/24   |  |  |
| Benzene                             | ND     | 0.0250                           |                |                           |      |               |              |              |                   |  |  |
| Ethylbenzene                        | ND     | 0.0250                           |                |                           |      |               |              |              |                   |  |  |
| Toluene                             | ND     | 0.0250                           |                |                           |      |               |              |              |                   |  |  |
| o-Xylene                            | ND     | 0.0250                           |                |                           |      |               |              |              |                   |  |  |
| p,m-Xylene                          | ND     | 0.0500                           |                |                           |      |               |              |              |                   |  |  |
| Total Xylenes                       | ND     | 0.0250                           |                |                           |      |               |              |              |                   |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 7.50   |                                  | 8.00           |                           | 93.8 | 70-130        |              |              |                   |  |  |
| LCS (2406110-BS1)                   |        |                                  |                |                           |      | ]             | Prepared: 02 | 2/09/24 Ana  | lyzed: 02/09/24   |  |  |
| Benzene                             | 4.98   | 0.0250                           | 5.00           |                           | 99.6 | 70-130        |              |              |                   |  |  |
| Ethylbenzene                        | 4.86   | 0.0250                           | 5.00           |                           | 97.1 | 70-130        |              |              |                   |  |  |
| Toluene                             | 4.98   | 0.0250                           | 5.00           |                           | 99.5 | 70-130        |              |              |                   |  |  |
| o-Xylene                            | 4.91   | 0.0250                           | 5.00           |                           | 98.1 | 70-130        |              |              |                   |  |  |
| p,m-Xylene                          | 9.93   | 0.0500                           | 10.0           |                           | 99.3 | 70-130        |              |              |                   |  |  |
| Total Xylenes                       | 14.8   | 0.0250                           | 15.0           |                           | 98.9 | 70-130        |              |              |                   |  |  |
| Surrogate: 4-Bromochlorobenzene-PID | 7.55   |                                  | 8.00           |                           | 94.4 | 70-130        |              |              |                   |  |  |
| LCS Dup (2406110-BSD1)              |        |                                  |                |                           |      | ]             | Prepared: 02 | 2/09/24 Ana  | lyzed: 02/09/24   |  |  |
| Benzene                             | 4.76   | 0.0250                           | 5.00           |                           | 95.3 | 70-130        | 4.41         | 20           |                   |  |  |
| Ethylbenzene                        | 4.65   | 0.0250                           | 5.00           |                           | 93.1 | 70-130        | 4.25         | 20           |                   |  |  |
| Toluene                             | 4.77   | 0.0250                           | 5.00           |                           | 95.3 | 70-130        | 4.31         | 20           |                   |  |  |
| o-Xylene                            | 4.70   | 0.0250                           | 5.00           |                           | 94.0 | 70-130        | 4.35         | 20           |                   |  |  |
| p,m-Xylene                          | 9.53   | 0.0500                           | 10.0           |                           | 95.3 | 70-130        | 4.09         | 20           |                   |  |  |

15.0

8.00

70-130

70-130

4.18

20

14.2

7.56

0.0250



## **QC Summary Data**

Matador Resources, LLC.Project Name:Charlie Sweeney Fed TBReported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo2/13/20243:29:02PM

| Nonhalogenated | Organics by | v EPA | .8015D - | GRO |
|----------------|-------------|-------|----------|-----|
|                |             |       |          |     |

Analyst: BA

| Analyte | Result | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec | Rec<br>Limits | RPD | RPD<br>Limit |       |
|---------|--------|--------------------|----------------|------------------|-----|---------------|-----|--------------|-------|
|         | mg/kg  | mg/kg              | mg/kg          | mg/kg            | %   | %             | %   | %            | Notes |

| Blank (2406110-BLK1)                    |      |      |      |      |        | Prepared: 02 | 2/09/24 | Analyzed: 02 | 2/09/24 |
|-----------------------------------------|------|------|------|------|--------|--------------|---------|--------------|---------|
| Gasoline Range Organics (C6-C10)        | ND   | 20.0 |      |      |        |              |         |              |         |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.29 |      | 8.00 | 91.1 | 70-130 |              |         |              |         |
| LCS (2406110-BS2)                       |      |      |      |      |        | Prepared: 02 | 2/09/24 | Analyzed: 02 | 2/09/24 |
| Gasoline Range Organics (C6-C10)        | 46.2 | 20.0 | 50.0 | 92.5 | 70-130 |              |         |              |         |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.51 |      | 8.00 | 93.9 | 70-130 |              |         |              |         |
| LCS Dup (2406110-BSD2)                  |      |      |      |      |        | Prepared: 02 | 2/09/24 | Analyzed: 02 | 2/10/24 |
| Gasoline Range Organics (C6-C10)        | 49.7 | 20.0 | 50.0 | 99.3 | 70-130 | 7.12         | 20      |              |         |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.49 |      | 8.00 | 93.7 | 70-130 |              |         |              |         |



## **QC Summary Data**

Matador Resources, LLC.Project Name:Charlie Sweeney Fed TBReported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo2/13/20243:29:02PM

| Danas 1A, 73240                 |        | 1 Toject Ivianage                              | 7.5            | sincy Gloveng    | 30       |               |             | 27           | 3.2021 3.29.0211 |  |
|---------------------------------|--------|------------------------------------------------|----------------|------------------|----------|---------------|-------------|--------------|------------------|--|
|                                 | Nonha  | Nonhalogenated Organics by EPA 8015D - DRO/ORO |                |                  |          |               |             |              |                  |  |
| Analyte                         | Result | Reporting<br>Limit                             | Spike<br>Level | Source<br>Result | Rec      | Rec<br>Limits | RPD         | RPD<br>Limit |                  |  |
|                                 | mg/kg  | mg/kg                                          | mg/kg          | mg/kg            | %        | %             | %           | %            | Notes            |  |
| Blank (2406109-BLK1)            |        |                                                |                |                  |          |               | Prepared: 0 | 2/09/24 Ana  | yzed: 02/09/24   |  |
| Diesel Range Organics (C10-C28) | ND     | 25.0                                           |                |                  |          |               |             |              |                  |  |
| Oil Range Organics (C28-C36)    | ND     | 50.0                                           |                |                  |          |               |             |              |                  |  |
| Surrogate: n-Nonane             | 47.0   |                                                | 50.0           |                  | 94.0     | 50-200        |             |              |                  |  |
| LCS (2406109-BS1)               |        |                                                |                |                  |          |               | Prepared: 0 | 2/09/24 Ana  | yzed: 02/09/24   |  |
| Diesel Range Organics (C10-C28) | 238    | 25.0                                           | 250            |                  | 95.3     | 38-132        |             |              |                  |  |
| Surrogate: n-Nonane             | 48.6   |                                                | 50.0           |                  | 97.2     | 50-200        |             |              |                  |  |
| Matrix Spike (2406109-MS1)      |        |                                                |                | Source:          | E402007- | 03            | Prepared: 0 | 2/09/24 Ana  | lyzed: 02/09/24  |  |
| Diesel Range Organics (C10-C28) | 268    | 25.0                                           | 250            | ND               | 107      | 38-132        |             |              |                  |  |
| Surrogate: n-Nonane             | 36.5   |                                                | 50.0           |                  | 73.0     | 50-200        |             |              |                  |  |
| Matrix Spike Dup (2406109-MSD1) |        |                                                |                | Source:          | E402007- | 03            | Prepared: 0 | 2/09/24 Ana  | yzed: 02/09/24   |  |
| Diesel Range Organics (C10-C28) | 261    | 25.0                                           | 250            | ND               | 105      | 38-132        | 2.33        | 20           |                  |  |
| Surrogate: n-Nonane             | 42.0   |                                                | 50.0           |                  | 83.9     | 50-200        |             |              |                  |  |

Matrix Spike (2406111-MS1)

Matrix Spike Dup (2406111-MSD1)

Chloride

Chloride

1650

1660

Prepared: 02/09/24 Analyzed: 02/09/24

Prepared: 02/09/24 Analyzed: 02/09/24

20

## **QC Summary Data**

| Matador Resources, LLC.<br>5400 LBJ Freeway, Suite 1500<br>Dallas TX, 75240 |        | Project Name:<br>Project Number:<br>Project Manager |                | 2                | <b>Reported:</b> 2/13/2024 3:29:02PM |               |             |              |                  |
|-----------------------------------------------------------------------------|--------|-----------------------------------------------------|----------------|------------------|--------------------------------------|---------------|-------------|--------------|------------------|
|                                                                             |        | Anions                                              | by EPA         | 300.0/9056       | <b>A</b>                             |               |             |              | Analyst: IY      |
| Analyte                                                                     | Result | Reporting<br>Limit                                  | Spike<br>Level | Source<br>Result | Rec                                  | Rec<br>Limits | RPD         | RPD<br>Limit |                  |
|                                                                             | mg/kg  | mg/kg                                               | mg/kg          | mg/kg            | %                                    | %             | %           | %            | Notes            |
| Blank (2406111-BLK1)                                                        |        |                                                     |                |                  |                                      |               | Prepared: 0 | 2/09/24 An   | alyzed: 02/09/24 |
| Chloride                                                                    | ND     | 20.0                                                |                |                  |                                      |               |             |              |                  |
| LCS (2406111-BS1)                                                           |        |                                                     |                |                  |                                      |               | Prepared: 0 | 2/09/24 An   | alyzed: 02/09/24 |
| Chloride                                                                    | 247    | 20.0                                                | 250            |                  | 99.0                                 | 90-110        |             |              |                  |

250

250

200

200

Source: E402007-04

Source: E402007-04

86.5

91.2

80-120

80-120

0.711

1430

1430

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# **Definitions and Notes**

| l | Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                |
|---|------------------------------|------------------|------------------------|----------------|
| l | 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:      |
| ١ | Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 02/13/24 15:29 |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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| roject Ma<br>address: 3<br>lity, State,<br>hone: 57 |                                                                                                                            | onov Eo                         |                      |           | Bill To                                                                    |                 |                    |      | ab U     | SEUI               | IIV            |          |           |       | TA    |                                         |                                     | rogran |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------|-----------|----------------------------------------------------------------------------|-----------------|--------------------|------|----------|--------------------|----------------|----------|-----------|-------|-------|-----------------------------------------|-------------------------------------|--------|
| ddress: 3<br>lity, State,<br>hone: 57               | anager: Asl                                                                                                                | Project: Charlie Sweeney Fed TB |                      |           | Attention: Matador Production Company                                      |                 |                    |      |          | Job                | Num            | ber      | 1D        | 2D    | 3D    | Standard                                | CWA                                 | SDW    |
| ity, State,<br>hone: 57                             | Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 |                                 |                      |           | City, State, Zip:<br>Phone: (337)319-8398                                  |                 | Lab WO#<br>E462007 |      | 230      | 252                | -0001          |          |           |       | Х     |                                         |                                     |        |
| hone: 57                                            |                                                                                                                            |                                 |                      |           |                                                                            |                 |                    |      |          | Analysis and Metho |                | d        |           | , A   |       | RCI                                     |                                     |        |
|                                                     |                                                                                                                            |                                 |                      |           |                                                                            |                 | O by               |      |          |                    |                |          |           |       |       |                                         | 6: :                                |        |
|                                                     | ovengo@ei                                                                                                                  |                                 | om                   |           | Email: clinton.talley@matad                                                | orresources.com | /OR                |      |          |                    |                |          | -         |       |       | NM CO                                   | State                               | TTV    |
| eport due                                           |                                                                                                                            | isorarii.c                      | On                   |           |                                                                            |                 | /DRC               | 8021 | 8260     | 010                | 300.0          | -        | N         |       | ¥     | 100                                     | UI AZ                               | 11     |
| Time<br>Sampled                                     | Date Sampled                                                                                                               | Matrix                          | No. of<br>Containers | Sample ID |                                                                            | Lab<br>Number   | TPH GRO/DRO/ORO by | by   | VOC by 8 | Metals 6010        | Chloride 300.0 | тсед трн | BGDOC     |       | GDOC  | ×                                       | Remarks                             |        |
| 14:55 1                                             | 1/29/2024                                                                                                                  | Soil                            | 1                    |           | FS01 - 2'                                                                  |                 |                    |      |          |                    |                |          | х         |       |       | 33-14-14-14-14                          | these samples u<br>oceed with testi |        |
|                                                     | 1/29/2024                                                                                                                  | Soil                            | 1                    |           | FS02 - 2'                                                                  | 7               |                    |      |          |                    |                |          | х         |       |       | CONTRACTOR OF THE                       | these samples u<br>oceed with testi |        |
|                                                     | 1/29/2024                                                                                                                  | Soil                            | 1                    |           | FS03 - 2'                                                                  | 3               |                    |      |          |                    |                |          | x         |       |       |                                         | these samples u<br>oceed with testi |        |
|                                                     | 1/29/2024                                                                                                                  | Soil                            | 1                    |           | FS04 - 2'                                                                  | 4               |                    |      |          |                    |                |          | x         |       |       | 100000000000000000000000000000000000000 | these samples u<br>oceed with testi |        |
|                                                     | /29/2024                                                                                                                   | Soil                            | 1                    |           | FS05 - 2'                                                                  | 5               |                    |      |          |                    |                |          | х         |       |       | A Charles Andrews                       | these samples u<br>oceed with testi |        |
|                                                     | ./29/2024                                                                                                                  | Soil                            | 1                    |           | FS06 - 2'                                                                  | 6               |                    |      |          |                    |                |          | x         |       |       | Control of the Control                  | these samples u<br>oceed with testi |        |
|                                                     | ./29/2024                                                                                                                  | Soil                            | 1                    |           | FS07 - 2'                                                                  | 7               |                    |      |          |                    |                |          | х         |       |       |                                         | these samples u<br>oceed with testi |        |
|                                                     | ./29/2024                                                                                                                  | Soil                            | 1                    |           | FS08 - 2'                                                                  | 8               |                    |      |          |                    |                |          | х         |       |       |                                         | these samples u<br>oceed with testi |        |
|                                                     | /29/2024                                                                                                                   | Soil                            | 1                    |           | FS16 - 2'                                                                  | 9               |                    |      |          |                    |                |          | x         |       |       | 77-27-1                                 | these samples u<br>oceed with testi |        |
| 9:21 1,                                             | /29/2024                                                                                                                   | Soil                            | 1                    |           | FS17 - 2'                                                                  | 10              |                    |      |          |                    |                |          | х         |       |       |                                         | these samples u<br>oceed with testi |        |
|                                                     | Instruction ntil we call                                                                                                   |                                 |                      |           | m.com, agiovengo@ensolum.com                                               | n, chamilton@e  | nsolum.            | com, | , eha    | ft@e               | nsolu          | m.com,   | iestr     | ella@ | enso  | lum.com Ple                             | ase hold                            | thes   |
| field sampler                                       | er), attest to the                                                                                                         | validity and                    | d authentici         |           | n aware that tampering with or intentionally I action. Sampled by: Cole Br |                 | e location,        |      |          |                    |                |          |           |       |       | eived on ice the day                    |                                     | led or |
| elinquished<br>20                                   | by: (Signature                                                                                                             | D                               | Date                 |           | Received by: (Signature)                                                   | Date /-31-2     | 24 Time            | 05   | 5        | Rec                | eived          | on ice:  |           | ab Us | e Onl | у                                       |                                     |        |
| de                                                  | by: (Signature                                                                                                             | _                               | J-J<br>Date          | 7 Time    | Received by: (Signature)                                                   | 7 · 3/- Date    | 2 Y Time           | 180  | 46       | T1                 |                |          | <u>T2</u> |       |       |                                         |                                     |        |



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| Client: N       | Matador Prod         | luction C    | omnany               |           | Bill To                                                             |                   | Lab Use Only       |          |        |             |                |          | _     | _          | TAT  |          | EDA D                                   | rogram                              |        |
|-----------------|----------------------|--------------|----------------------|-----------|---------------------------------------------------------------------|-------------------|--------------------|----------|--------|-------------|----------------|----------|-------|------------|------|----------|-----------------------------------------|-------------------------------------|--------|
|                 | Charlie Swe          |              |                      |           | Attention: Matador Produ                                            | iction Company    | Lab WC             | _        | au o   | Job Number  |                |          | 1     | D 20       |      | 17.71.77 | Standard                                | CWA                                 | SDW    |
|                 | Manager: As          |              |                      |           | Address: on file                                                    | action company    | E402007            |          |        |             | 600            |          | 21    | +          |      | X        | CVVA                                    | 30 00                               |        |
|                 | 3122 Natio           |              |                      |           | City, State, Zip:                                                   |                   |                    |          |        |             | nd Met         |          | od .  |            |      |          |                                         | RCR                                 |        |
| City, Stat      | e, Zip: Carls        | bad NM,      | 88220                |           | Phone: (337)319-8398                                                |                   | þý                 |          |        |             |                |          | T     |            | T    |          |                                         |                                     |        |
|                 | 575-988-005          |              |                      |           | Email: clinton.talley@mata                                          | adorresources.con | SRO I              |          |        |             | 1              |          |       |            |      |          |                                         | State                               |        |
|                 | giovengo@e           | nsolum.c     | om                   |           |                                                                     |                   | RO/                | 17       | 0      |             | 0.0            |          |       | ΣZ         | ١,   | <        | NM CO                                   | UT AZ                               | TX     |
| Report d        | ue by:               |              |                      |           |                                                                     |                   | 0/0                | y 8021   | 8260   | 601(        | e 30           | PH       | - 1   |            | F    |          | ×                                       |                                     |        |
| Time<br>Sampled | Date Sampled         | Matrix       | No. of<br>Containers | Sample ID |                                                                     | Lab<br>Number     | TPH GRO/DRO/ORO by | BTEX by  | VOC by | Metals 6010 | Chloride 300.0 | тсед трн |       | ВСБОС      | 000  | 200      |                                         | Remarks                             |        |
| 9:23            | 1/29/2024            | Soil         | 1                    |           | FS24 - 2'                                                           |                   |                    |          |        |             |                |          |       | х          |      |          |                                         | these samples u<br>oceed with testi |        |
| 9:30            | 1/29/2024            | Soil         | 1                    |           | FS25 - 2'                                                           | U                 |                    |          |        |             |                |          |       | х          |      |          |                                         | these samples u<br>oceed with testi |        |
| 9:33            | 1/29/2024            | Soil         | 1                    |           | FS29 - 2'                                                           | 3                 |                    |          |        |             |                |          |       | х          |      |          |                                         | these samples u<br>oceed with testi |        |
| 9:37            | 1/29/2024            | Soil         | 1                    |           | FS31 - 2'                                                           | 14                |                    |          |        |             |                |          |       | х          |      |          |                                         | these samples u<br>oceed with testi |        |
|                 |                      |              |                      |           |                                                                     |                   |                    |          |        |             |                |          |       |            |      |          |                                         |                                     |        |
|                 |                      |              |                      |           |                                                                     |                   |                    |          |        |             |                |          | 1     | -          | 1    |          |                                         |                                     |        |
|                 |                      |              |                      |           |                                                                     |                   |                    |          |        |             |                |          | 1     |            | +    |          |                                         |                                     |        |
|                 | al Instruction       |              |                      |           | m.com, agiovengo@ensolum.c                                          | com, chamilton@e  | nsolum             | .com     | , eha  | ft@e        | nsolu          | ım.con   | n, ie | strella    | a@ei | nsolu    | m.com Plea                              | ase hold                            | thes   |
| (field samp     | oler), attest to the | validity and | d authenticit        |           | m aware that tampering with or intentional action.  Sampled by: Col |                   | le location,       |          |        |             |                |          |       |            |      |          | ed on ice the day<br>than 6 °C on subse |                                     | led or |
| elinguishe      | ed by: (Signature    | e)           | Date                 | Time      | Received by: (Signature)                                            | Date /-3/-        | 24 Tim             | 05       | 5      | Rec         | eived          | on ice   |       | Lab<br>(Y) |      | Only     |                                         |                                     |        |
| elinquishe      | d by: (Signature     | e)           | Date /-3             | 31.24 16  | 25 Received by: (Signature)                                         | Date /-3/         | Tim                |          | 10     | T1          | 712.00         |          |       | 2          |      |          | T3                                      |                                     |        |
| elinealshe      | ed by: Signature     | e)           | Date                 | 1.24 Time | Received by:(Signature)                                             | Date O2 CL 3      | Tim                | 60<br>60 | 0      | AVG         |                | 000      | 4     | 1          |      |          |                                         |                                     |        |



or disposed of at the client expense. The report for the analysis of the above on the report.

Continuous expense and the client expense are continuous expense and the client expense. The report for the analysis of the above on the report.

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Printed: 2/2/2024 3:21:20PM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

| Client:        | Matador Resources, LLC.                                                                                                                                                                                 | Date Received:    | 02/01/24 (      | 08:00                | Work Order ID: | E402007        |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|----------------------|----------------|----------------|
| Phone:         | (972) 371-5200                                                                                                                                                                                          | Date Logged In:   | 02/01/24 (      | 09:27                | Logged In By:  | Alexa Michaels |
| Email:         | agiovngo@ensolum.com                                                                                                                                                                                    | Due Date:         | 02/07/24        | 17:00 (4 day TAT)    |                |                |
| GL :           | 10 11 (000)                                                                                                                                                                                             |                   |                 |                      |                |                |
|                | f Custody (COC)                                                                                                                                                                                         |                   | 37              |                      |                |                |
|                | the sample ID match the COC?<br>The number of samples per sampling site location match.                                                                                                                 | ch the COC        | Yes             |                      |                |                |
|                | samples dropped off by client or carrier?                                                                                                                                                               | en the coc        | Yes             | C : C1 D /           |                |                |
|                | ne COC complete, i.e., signatures, dates/times, reques                                                                                                                                                  | ted analyses?     | Yes<br>Yes      | Carrier: Cole Burton |                |                |
|                | all samples received within holding time?                                                                                                                                                               | ica anaryses:     | Yes             |                      |                |                |
| J. Wele        | Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion                                                                                   |                   | 105             |                      | Commen         | ts/Resolution  |
|                | <u> Turn Around Time (TAT)</u>                                                                                                                                                                          |                   |                 |                      |                |                |
| 6. Did th      | e COC indicate standard TAT, or Expedited TAT?                                                                                                                                                          |                   | Yes             |                      |                |                |
| Sample         |                                                                                                                                                                                                         |                   |                 |                      |                |                |
|                | sample cooler received?                                                                                                                                                                                 |                   | Yes             |                      |                |                |
| 8. If yes,     | was cooler received in good condition?                                                                                                                                                                  |                   | Yes             |                      |                |                |
| 9. Was tl      | ne sample(s) received intact, i.e., not broken?                                                                                                                                                         |                   | Yes             |                      |                |                |
| 10. Were       | custody/security seals present?                                                                                                                                                                         |                   | No              |                      |                |                |
| 11. If yes     | s, were custody/security seals intact?                                                                                                                                                                  |                   | NA              |                      |                |                |
|                | he sample received on ice? If yes, the recorded temp is 4°C,<br>Note: Thermal preservation is not required, if samples are<br>minutes of sampling<br>visible ice, record the temperature. Actual sample | e received w/i 15 | Yes<br><u>C</u> |                      |                |                |
| Sample         | <u>Container</u>                                                                                                                                                                                        |                   |                 |                      |                |                |
|                | aqueous VOC samples present?                                                                                                                                                                            |                   | No              |                      |                |                |
| 15. Are        | VOC samples collected in VOA Vials?                                                                                                                                                                     |                   | NA              |                      |                |                |
|                | e head space less than 6-8 mm (pea sized or less)?                                                                                                                                                      |                   | NA              |                      |                |                |
| 17. Was        | a trip blank (TB) included for VOC analyses?                                                                                                                                                            |                   | NA              |                      |                |                |
|                | non-VOC samples collected in the correct containers?                                                                                                                                                    | ,                 | Yes             |                      |                |                |
|                | appropriate volume/weight or number of sample contain                                                                                                                                                   |                   | Yes             |                      |                |                |
| Field La       | •                                                                                                                                                                                                       |                   |                 |                      |                |                |
|                | e field sample labels filled out with the minimum info                                                                                                                                                  | rmation:          |                 |                      |                |                |
|                | Sample ID?                                                                                                                                                                                              |                   | Yes             |                      |                |                |
|                | Date/Time Collected?                                                                                                                                                                                    |                   | No              |                      |                |                |
|                | Collectors name?                                                                                                                                                                                        |                   | No              |                      |                |                |
|                | <u>Preservation</u>                                                                                                                                                                                     |                   |                 |                      |                |                |
|                | the COC or field labels indicate the samples were pr                                                                                                                                                    | eserved?          | No              |                      |                |                |
|                | sample(s) correctly preserved?                                                                                                                                                                          |                   | NA              |                      |                |                |
| 24. Is lat     | o filteration required and/or requested for dissolved m                                                                                                                                                 | etals?            | No              |                      |                |                |
|                | ase Sample Matrix                                                                                                                                                                                       |                   |                 |                      |                |                |
|                | the sample have more than one phase, i.e., multiphas                                                                                                                                                    |                   | No              |                      |                |                |
| 27. If ye      | s, does the COC specify which phase(s) is to be analy                                                                                                                                                   | zed?              | NA              |                      |                |                |
| Subcont        | ract Laboratory                                                                                                                                                                                         |                   |                 |                      |                |                |
|                | samples required to get sent to a subcontract laborator                                                                                                                                                 | y?                | No              |                      |                |                |
|                | a subcontract laboratory specified by the client and if                                                                                                                                                 | -                 | NA              | Subcontract Lab: NA  |                |                |
| Client I       | nstruction .                                                                                                                                                                                            |                   |                 |                      |                |                |
| <u>enene i</u> | noti detion                                                                                                                                                                                             |                   |                 |                      |                |                |
|                |                                                                                                                                                                                                         |                   |                 |                      |                |                |
|                |                                                                                                                                                                                                         |                   |                 |                      |                |                |
|                |                                                                                                                                                                                                         |                   |                 |                      |                |                |
|                |                                                                                                                                                                                                         |                   |                 |                      |                |                |
|                |                                                                                                                                                                                                         |                   |                 |                      |                |                |
|                |                                                                                                                                                                                                         |                   |                 |                      |                |                |
|                |                                                                                                                                                                                                         |                   |                 |                      |                |                |
|                |                                                                                                                                                                                                         |                   |                 |                      |                | _              |

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Charlie Sweeney Fed TB

Work Order: E402008

Job Number: 23052-0001

Received: 2/1/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/7/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/7/24

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Charlie Sweeney Fed TB

Workorder: E402008

Date Received: 2/1/2024 4:28:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/1/2024 4:28:00PM, under the Project Name: Charlie Sweeney Fed TB.

The analytical test results summarized in this report with the Project Name: Charlie Sweeney Fed TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

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Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative
Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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### Sample Summary

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB | Donoutoda      |
|------------------------------|------------------|------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:      |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 02/07/24 14:43 |

| Client Sample ID | Lab Sample ID N | <b>Iatrix</b> | Sampled  | Received | Container        |
|------------------|-----------------|---------------|----------|----------|------------------|
| BH01 - 3'        | E402008-01A     | Soil          | 01/30/24 | 02/01/24 | Glass Jar, 2 oz. |
| BH01 - 4'        | E402008-02A     | Soil          | 01/30/24 | 02/01/24 | Glass Jar, 2 oz. |
| BH01 - 5'        | E402008-03A     | Soil          | 01/30/24 | 02/01/24 | Glass Jar, 2 oz. |
| BH01 - 6'        | E402008-04A     | Soil          | 01/30/24 | 02/01/24 | Glass Jar, 2 oz. |
| BH01 - 7'        | E402008-05A     | Soil          | 01/30/24 | 02/01/24 | Glass Jar, 2 oz. |
| BH01 - 8'        | E402008-06A     | Soil          | 01/30/24 | 02/01/24 | Glass Jar, 2 oz. |
| BH01 - 9'        | E402008-07A     | Soil          | 01/30/24 | 02/01/24 | Glass Jar, 2 oz. |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/7/2024 2:43:36PM |

### BH01 - 3' E402008-01

| Analyte                            | Result | Reporting<br>Limit | Dilution    | Prepared | Analyzed | Notes          |
|------------------------------------|--------|--------------------|-------------|----------|----------|----------------|
| A ' 1 EDA 200 0/005/ A             |        | п                  | Analyst: IY |          |          |                |
| Anions by EPA 300.0/9056A          | mg/kg  | mg/kg              | Anaiyst:    | : 1 Y    |          | Batch: 2406017 |
| Anions by EPA 300.0/9056A Chloride | 4320   | 200                | 10          | 02/05/24 | 02/06/24 | Batch: 2406017 |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/7/2024 2:43:36PM |

BH01 - 4'

|                           |        | Reporting |          |          |          |                |   |
|---------------------------|--------|-----------|----------|----------|----------|----------------|---|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |   |
| A . I EDA 200 0/0056 A    |        | /1        | Analyst: | · IV     |          | Batch: 2406017 |   |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Anaryst  | . 11     |          | Batch: 2400017 |   |
| Chloride                  | 2270   | 200       | 10       | 02/05/24 | 02/06/24 | Batch: 2400017 | — |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/7/2024 2:43:36PM |

BH01 - 5'

|                                    |               | Reporting    |          |          |          |                |   |
|------------------------------------|---------------|--------------|----------|----------|----------|----------------|---|
| Analyte                            | Result        | Limit        | Dilution | Prepared | Analyzed | Notes          |   |
|                                    |               |              |          |          |          |                |   |
| Anions by EPA 300.0/9056A          | mg/kg         | mg/kg        | Analyst: | IY       |          | Batch: 2406017 |   |
| Anions by EPA 300.0/9056A Chloride | mg/kg<br>2850 | mg/kg<br>200 | Analyst: | 02/05/24 | 02/06/24 | Batch: 2406017 | _ |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/7/2024 2:43:36PM |

BH01 - 6'

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | : IY     |          | Batch: 2406017 |
| Chloride                  | 2760   | 200       | 10       | 02/05/24 | 02/06/24 |                |
| Sulfate                   | 25000  | 200       | 10       | 02/05/24 | 02/06/24 |                |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/7/2024 2:43:36PM |

BH01 - 7'

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | IY       |          | Batch: 2406017 |
| Chloride                  | 1710   | 200       | 10       | 02/05/24 | 02/06/24 |                |
| Sulfate                   | 22000  | 200       | 10       | 02/05/24 | 02/06/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/7/2024 2:43:36PM |

BH01 - 8'

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | IY       |          | Batch: 2406017 |
| Chloride                  | 1090   | 200       | 10       | 02/05/24 | 02/06/24 |                |
| Sulfate                   | 20700  | 200       | 10       | 02/05/24 | 02/06/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/7/2024 2:43:36PM |

BH01 - 9'

|                                    |                     | Reporting    |          |          |          |                |  |
|------------------------------------|---------------------|--------------|----------|----------|----------|----------------|--|
| Analyte                            | Result              | Limit        | Dilution | Prepared | Analyzed | Notes          |  |
|                                    |                     |              |          |          |          |                |  |
| Anions by EPA 300.0/9056A          | mg/kg               | mg/kg        | Analyst: | IY       |          | Batch: 2406017 |  |
| Anions by EPA 300.0/9056A Chloride | mg/kg<br><b>957</b> | mg/kg<br>200 | Analyst: | 02/05/24 | 02/06/24 | Batch: 2406017 |  |



Sulfate

# **QC Summary Data**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB | Reported:          |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             |                    |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/7/2024 2:43:36PM |

| Anions by EPA 300.0/9056A |        |                    |                |                  |      |               |             |              | Analyst: IY       |  |  |
|---------------------------|--------|--------------------|----------------|------------------|------|---------------|-------------|--------------|-------------------|--|--|
| Analyte                   | Result | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec  | Rec<br>Limits | RPD         | RPD<br>Limit |                   |  |  |
|                           | mg/kg  | mg/kg              | mg/kg          | mg/kg            | %    | %             | %           | %            | Notes             |  |  |
| Blank (2406017-BLK1)      |        |                    |                |                  |      |               | Prepared: 0 | 2/05/24 Ar   | nalyzed: 02/05/24 |  |  |
| Chloride                  | ND     | 20.0               |                |                  |      |               |             |              |                   |  |  |
| Sulfate                   | ND     | 20.0               |                |                  |      |               |             |              |                   |  |  |
| LCS (2406017-BS1)         |        |                    |                |                  |      |               | Prepared: 0 | 2/05/24 Ar   | nalyzed: 02/05/24 |  |  |
| Chloride                  | 251    | 20.0               | 250            |                  | 100  | 90-110        |             |              |                   |  |  |
| Sulfate                   | 248    | 20.0               | 250            |                  | 99.2 | 90-110        |             |              |                   |  |  |
| LCS Dup (2406017-BSD1)    |        |                    |                |                  |      |               | Prepared: 0 | 2/05/24 Ar   | nalyzed: 02/05/24 |  |  |
| Chloride                  | 251    | 20.0               | 250            |                  | 100  | 90-110        | 0.00878     | 20           |                   |  |  |

250

99.7

90-110

0.532

20

249

20.0

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# **Definitions and Notes**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                |
|------------------------------|------------------|------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:      |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 02/07/24 14:43 |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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| client: I       | Matador Prod           | duction C     | Company              |                      |                        | Bill To                            |         |                            | L            | ab Us       | se Onl      | ly                  |           |       |        |       | TA   | T   |                | EPA P         | rogram  |
|-----------------|------------------------|---------------|----------------------|----------------------|------------------------|------------------------------------|---------|----------------------------|--------------|-------------|-------------|---------------------|-----------|-------|--------|-------|------|-----|----------------|---------------|---------|
| -               | Charlie Swe            |               |                      |                      |                        | or Production Company              | Lal     | WO!                        | #            |             | Job N       | Num                 | ber       |       | 1D     | 2D    | 3D   | Sta | andard         | CWA           | SDWA    |
| -               | Manager: As            |               |                      |                      | Address: on file       |                                    | E       | 402                        | 200          | )           | 23          | 55                  | 1-60      | 3     |        |       |      |     | Х              |               |         |
| -               | : 3122 Natio           |               |                      |                      | City, State, Zip:      |                                    |         |                            |              |             | Analys      | sis a               | nd Met    | nod   |        |       |      |     |                |               | RCRA    |
| City, Sta       | te, Zip: Carls         | bad NM,       | 88220                |                      | Phone: (337)319-8      | 3398                               |         | by                         |              |             |             |                     |           |       |        |       |      |     |                |               |         |
| _               | 575-988-005            |               |                      |                      | Email: clinton.talle   | ey@matadorresources.co             | m       | ORO                        |              |             | 1           | 504                 |           |       |        |       |      |     |                | State         |         |
| Email: a        | giovengo@e             | nsolum.c      | com                  |                      |                        |                                    |         | RO/(                       | н            | 0           | _           | 0.0                 |           |       | NN     |       | _    |     | NM CO          | UT AZ         | TX      |
| Report d        | lue by:                |               |                      | _                    |                        |                                    |         | 10/0                       | 802          | 826         | 2010        | 300                 | I         |       |        |       | ¥    |     | ×              |               |         |
| Time<br>Sampled | Date Sampled           | Matrix        | No. of<br>Containers | Sample ID            |                        | Lab<br>Numbe                       | r       | TPH GRO/DRO/ORO by<br>8015 | ВТЕХ ЬУ 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 +504 | тсео трн  |       | верос  |       | GDOC |     |                | Remarks       |         |
| 9:37            | 1/30/2024              | Soil          | 1                    |                      | BH01 - 3'              | l l                                |         |                            |              |             |             | x                   |           | 1     |        |       |      | 1   |                | J-Flag        |         |
| 9:39            | 1/30/2024              | Soil          | 1                    |                      | BH01 - 4'              | 2                                  |         |                            |              |             |             | х                   |           | 1     |        |       |      | 100 |                | J-Flag        |         |
| 9:42            | 1/30/2024              | Soil          | 1                    |                      | BH01 - 5'              | 3                                  |         |                            |              |             |             | х                   |           |       |        |       |      |     |                | J-Flag        |         |
| 9:44            | 1/30/2024              | Soil          | 1                    |                      | BH01 - 6'              | 4                                  |         |                            |              |             |             | х                   |           |       |        |       |      |     |                | J-Flag        |         |
| 11:08           | 1/30/2024              | Soil          | 1                    | BH01 - 7'            |                        | 5                                  |         |                            |              |             |             | х                   |           |       |        |       |      |     |                | J-Flag        |         |
| 11:09           | 1/30/2024              | Soil          | 1                    |                      | BH01 - 8'              | 6                                  |         |                            |              |             |             | х                   |           |       |        |       |      |     |                | J-Flag        |         |
| 11:10           | 1/30/2024              | Soil          | 1                    |                      | BH01 - 9'              | 1                                  |         |                            |              |             | 4           | х                   |           |       |        |       |      |     |                | J-Flag        |         |
|                 |                        |               | -                    |                      |                        |                                    |         |                            |              |             |             |                     |           |       |        |       |      |     |                |               |         |
|                 |                        |               |                      |                      |                        |                                    |         | $\vdash$                   |              |             |             |                     |           | +     |        |       |      |     |                |               |         |
| Addition        | al Instruction         | ns: Plea      | ise CC: cl           | urton@ensol          | um.com, agiovengo@en   | solum.com, chamilton@              | enso    | lum.c                      | om,          | ehaf        | t@en        | solu                | ım.con    | ı, ie | estre  | lla@  | ensc | lum | .com           |               |         |
|                 |                        |               |                      | ty of this sample. I |                        | intentionally mislabelling the sam | ole loc | ation,                     |              |             |             |                     |           |       |        |       |      |     | on ice the day | they are samp | oled or |
| Relinquishe     | ed by: (Signatur       | e)            | Date<br>/-           | 31-24 Time           | Received by: (Sign     | Date 1.31.                         | 24      | Time /                     |              | 5           | Recei       | ived                | l on ice  | : (   |        | b Us  | e On | ly  |                |               |         |
| 7               | ed by: (Signatur       | 1             |                      | 31.24 /              | 605 Received by: (Sign | 1.31.                              | 24      | Time / 8                   | 140          | )           | T1          |                     |           | 1     | T2     |       |      |     | T3             |               |         |
| Relineralishe   | ed by: (Signatur       | e)            | Date 01              | 2./.24 Time          | Received by: (\$ign    |                                    | 24      | Time 18                    | : 29         | 5           | AVG         | Ten                 | np °C_    | 4     |        |       |      |     |                |               |         |
| Cample Mark     | rix: S - Soil. Sd - So | lid, Sg - Slu | dge, A - Aqu         | eous, O - Other      |                        | Contain                            | r Tyr   | 10. a -                    | alace        | n - n       | oly/pl      | actio               | , ag - ai | nho   | ar ola | cc 1/ | VO   | V   |                |               |         |



Printed: 2/2/2024 5:10:22PM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

| Client:      | Matador Resources, LLC.                                                                                                                          | Date Received:   | 02/01/24 | 16:28              | Wo           | rk Order ID: | E402008        |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|--------------------|--------------|--------------|----------------|
| Phone:       | (972) 371-5200                                                                                                                                   | Date Logged In:  | 02/01/24 | 09:31              | Lo           | gged In By:  | Alexa Michaels |
| Email:       | agiovngo@ensolum.com                                                                                                                             | Due Date:        |          | 17:00 (4 day TAT)  |              | 96 7 -       |                |
|              |                                                                                                                                                  |                  |          |                    |              |              |                |
| Chain of     | Custody (COC)                                                                                                                                    |                  |          |                    |              |              |                |
| 1. Does th   | e sample ID match the COC?                                                                                                                       |                  | Yes      |                    |              |              |                |
| 2. Does th   | e number of samples per sampling site location mate                                                                                              | ch the COC       | Yes      |                    |              |              |                |
| 3. Were sa   | imples dropped off by client or carrier?                                                                                                         |                  | No       | Carrier: Cou       | <u>ırier</u> |              |                |
| 4. Was the   | e COC complete, i.e., signatures, dates/times, reques                                                                                            | ted analyses?    | Yes      |                    |              |              |                |
| 5. Were al   | l samples received within holding time?<br>Note: Analysis, such as pH which should be conducted in                                               |                  | Yes      |                    |              | Commonts     | /Pecalutian    |
| Cample T     | i.e, 15 minute hold time, are not included in this disucssion urn Around Time (TAT)                                                              | on.              |          |                    |              | Comments     | /Resolution    |
|              | COC indicate standard TAT, or Expedited TAT?                                                                                                     |                  | Yes      |                    |              |              |                |
|              | •                                                                                                                                                |                  | 103      |                    |              |              |                |
| Sample C     | ample cooler received?                                                                                                                           |                  | Yes      |                    |              |              |                |
|              | was cooler received in good condition?                                                                                                           |                  | Yes      |                    |              |              |                |
| •            | •                                                                                                                                                |                  |          |                    |              |              |                |
|              | e sample(s) received intact, i.e., not broken?                                                                                                   |                  | Yes      |                    |              |              |                |
|              | custody/security seals present?                                                                                                                  |                  | No       |                    |              |              |                |
| 11. If yes,  | were custody/security seals intact?                                                                                                              |                  | NA       |                    |              |              |                |
| 12. Was the  | e sample received on ice? If yes, the recorded temp is 4°C,<br>Note: Thermal preservation is not required, if samples are<br>minutes of sampling |                  | Yes      |                    |              |              |                |
| 13. If no v  | visible ice, record the temperature. Actual sample                                                                                               | temperature: 4°0 | <u>C</u> |                    |              |              |                |
| Sample C     | ontainer_                                                                                                                                        |                  |          |                    |              |              |                |
| 14. Are aq   | queous VOC samples present?                                                                                                                      |                  | No       |                    |              |              |                |
| 15. Are V    | OC samples collected in VOA Vials?                                                                                                               |                  | NA       |                    |              |              |                |
| 16. Is the   | head space less than 6-8 mm (pea sized or less)?                                                                                                 |                  | NA       |                    |              |              |                |
| 17. Was a    | trip blank (TB) included for VOC analyses?                                                                                                       |                  | NA       |                    |              |              |                |
| 18. Are no   | on-VOC samples collected in the correct containers?                                                                                              | •                | Yes      |                    |              |              |                |
| 19. Is the a | ppropriate volume/weight or number of sample contain                                                                                             | ers collected?   | Yes      |                    |              |              |                |
| Field Lab    | <u>el</u>                                                                                                                                        |                  |          |                    |              |              |                |
|              | field sample labels filled out with the minimum info                                                                                             | rmation:         |          |                    |              |              |                |
|              | imple ID?                                                                                                                                        |                  | Yes      |                    |              |              |                |
|              | ate/Time Collected?<br>ollectors name?                                                                                                           |                  | No       |                    |              |              |                |
|              |                                                                                                                                                  |                  | No       |                    |              |              |                |
|              | reservation  the COC or field labels indicate the samples were properties.                                                                       | eserved?         | No       |                    |              |              |                |
|              | mple(s) correctly preserved?                                                                                                                     | eserveu:         | NA       |                    |              |              |                |
|              | filteration required and/or requested for dissolved m                                                                                            | etals?           | No       |                    |              |              |                |
|              | •                                                                                                                                                | iouis.           | 110      |                    |              |              |                |
|              | se Sample Matrix                                                                                                                                 | 9                | 3.7      |                    |              |              |                |
|              | the sample have more than one phase, i.e., multiphas                                                                                             |                  | No       |                    |              |              |                |
|              | does the COC specify which phase(s) is to be analy                                                                                               | zeu?             | NA       |                    |              |              |                |
|              | act Laboratory                                                                                                                                   |                  |          |                    |              |              |                |
|              | mples required to get sent to a subcontract laborator                                                                                            | ~                | No       |                    |              |              |                |
| 29. Was a    | subcontract laboratory specified by the client and if                                                                                            | so who?          | NA       | Subcontract Lab: N | <b>JA</b>    |              |                |
| Client In    | <u>struction</u>                                                                                                                                 |                  |          |                    |              |              |                |
|              |                                                                                                                                                  |                  |          |                    |              |              |                |
|              |                                                                                                                                                  |                  |          |                    |              |              |                |
|              |                                                                                                                                                  |                  |          |                    |              |              |                |
|              |                                                                                                                                                  |                  |          |                    |              |              |                |
|              |                                                                                                                                                  |                  |          |                    |              |              |                |
|              |                                                                                                                                                  |                  |          |                    |              |              |                |
|              |                                                                                                                                                  |                  |          |                    |              |              |                |
|              |                                                                                                                                                  |                  |          |                    |              |              |                |

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Charlie Sweeney Fed TB

Work Order: E402009

Job Number: 23052-0001

Received: 2/1/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/7/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/7/24

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Charlie Sweeney Fed TB

Workorder: E402009

Date Received: 2/1/2024 9:34:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/1/2024 9:34:00AM, under the Project Name: Charlie Sweeney Fed TB.

The analytical test results summarized in this report with the Project Name: Charlie Sweeney Fed TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

**Southern New Mexico Area** 

Lynn Jarboe

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### Sample Summary

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB | Donoutode      |
|------------------------------|------------------|------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:      |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 02/07/24 14:42 |

| Client Sample ID | Lab Sample ID Matrix | Sampled  | Received | Container        |
|------------------|----------------------|----------|----------|------------------|
| BH02-3'          | E402009-01A Soil     | 01/30/24 | 02/01/24 | Glass Jar, 2 oz. |
| BH02-4'          | E402009-02A Soil     | 01/30/24 | 02/01/24 | Glass Jar, 2 oz. |
| BH02-5'          | E402009-03A Soil     | 01/30/24 | 02/01/24 | Glass Jar, 2 oz. |
| BH02-6'          | F402009-04A Soil     | 01/30/24 | 02/01/24 | Glass Iar 2 oz   |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/7/2024 2:42:43PM |

### BH02-3' E402009-01

|                                    |               | Reporting    |          |                  |          |                |
|------------------------------------|---------------|--------------|----------|------------------|----------|----------------|
| Analyte                            | Result        | Limit        | Dilution | Prepared         | Analyzed | Notes          |
|                                    |               |              |          |                  |          |                |
| Anions by EPA 300.0/9056A          | mg/kg         | mg/kg        | Analyst  | : IY             |          | Batch: 2406017 |
| Anions by EPA 300.0/9056A Chloride | mg/kg<br>1770 | mg/kg<br>200 | Analyst: | : IY<br>02/05/24 | 02/06/24 | Batch: 2406017 |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/7/2024 2:42:43PM |

### BH02-4'

### E402009-02

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | IY       |          | Batch: 2406017 |
| Chloride                  | 1490   | 200       | 10       | 02/05/24 | 02/06/24 |                |
| Sulfate                   | 22000  | 200       | 10       | 02/05/24 | 02/06/24 |                |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/7/2024 2:42:43PM |

### BH02-5'

### E402009-03

| Analyte                   | Result | Limit | Dilution | Prepared | Analyzed | Notes          |
|---------------------------|--------|-------|----------|----------|----------|----------------|
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg | Analyst: | IY       |          | Batch: 2406017 |
| Chloride                  | 1540   | 200   | 10       | 02/05/24 | 02/06/24 |                |
| Sulfate                   | 22100  | 200   | 10       | 02/05/24 | 02/06/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/7/2024 2:42:43PM |

### BH02-6'

### E402009-04

| Analyte                   | Result | Limit | Dilution | Prepared | Analyzed | Notes          |
|---------------------------|--------|-------|----------|----------|----------|----------------|
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg | Analyst: | IY       |          | Batch: 2406017 |
| Chloride                  | 1430   | 200   | 10       | 02/05/24 | 02/06/24 |                |
| Sulfate                   | 20800  | 200   | 10       | 02/05/24 | 02/06/24 |                |



Sulfate

# **QC Summary Data**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB | Reported:          |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             |                    |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/7/2024 2:42:43PM |

| Anions by EPA 300.0/9056A |        |                    |                |                  |      |               |              |              |                  |  |
|---------------------------|--------|--------------------|----------------|------------------|------|---------------|--------------|--------------|------------------|--|
| Analyte                   | Result | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec  | Rec<br>Limits | RPD          | RPD<br>Limit |                  |  |
|                           | mg/kg  | mg/kg              | mg/kg          | mg/kg            | %    | %             | %            | %            | Notes            |  |
| Blank (2406017-BLK1)      |        |                    |                |                  |      |               | Prepared: 02 | 2/05/24 Ana  | alyzed: 02/05/24 |  |
| Chloride                  | ND     | 20.0               |                |                  |      |               |              |              |                  |  |
| Sulfate                   | ND     | 20.0               |                |                  |      |               |              |              |                  |  |
| LCS (2406017-BS1)         |        |                    |                |                  |      |               | Prepared: 02 | 2/05/24 Ana  | alyzed: 02/05/24 |  |
| Chloride                  | 251    | 20.0               | 250            |                  | 100  | 90-110        |              |              |                  |  |
| Sulfate                   | 248    | 20.0               | 250            |                  | 99.2 | 90-110        |              |              |                  |  |
| LCS Dup (2406017-BSD1)    |        |                    |                |                  |      |               | Prepared: 02 | 2/05/24 Ana  | alyzed: 02/05/24 |  |
| Chloride                  | 251    | 20.0               | 250            |                  | 100  | 90-110        | 0.00878      | 20           |                  |  |

250

99.7

90-110

0.532

20

249

20.0

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# **Definitions and Notes**

| I | Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                |
|---|------------------------------|------------------|------------------------|----------------|
| l | 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:      |
| l | Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 02/07/24 14:42 |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



|      | Pa    | age _ | 1  | _ of | - | Received by OCD: 9/18/2024 9:56:21 AM |
|------|-------|-------|----|------|---|---------------------------------------|
| EI   | PA Pr | ogra  | m  | 7    |   | by C                                  |
|      | VA    |       | WA | 1    |   | CD                                    |
|      |       | RC    | RA |      |   | : 9/18                                |
| Sta  | ate   |       |    | 1    |   | /202                                  |
| JT   | AZ    | TX    |    |      |   | 49                                    |
|      |       |       |    |      |   | :56                                   |
| em   | arks  |       |    |      |   | :21                                   |
| J-F  | lag   |       |    |      |   | AM                                    |
| J-F  | lag   |       |    |      |   |                                       |
| J-F  | ag    |       |    |      |   |                                       |
| J-FI | ag    |       |    |      |   |                                       |
|      |       |       |    | 1    |   |                                       |

| djent: I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Matador Pro                         | duction (                 | Company                    |                                        |                           | Bill To                                                               |                                             |        |                            | L            | ab U         | se On               | ly                  |                |        |        |       | TA    | T                | T        | EPA Pr     | ogram   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------|----------------------------|----------------------------------------|---------------------------|-----------------------------------------------------------------------|---------------------------------------------|--------|----------------------------|--------------|--------------|---------------------|---------------------|----------------|--------|--------|-------|-------|------------------|----------|------------|---------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Charlie Swe                         |                           |                            |                                        | Att                       | ention: Matador Production                                            | on Company                                  | Lat    | WO#                        | ŧ            |              | Job I               | Num                 | ber            |        | 1D     | 2D    | 3D    | Standar          |          | CWA        | SDWA    |
| oject l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Manager: As                         | hley Giov                 | vengo                      |                                        | Ad                        | dress: on file                                                        |                                             | E      | 4021                       | 209          | - 6 M        | (53)                | 5                   | 1-n            | (XX    |        |       |       | Х                |          |            |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | : 3122 Natio                        |                           | -                          |                                        | Cit                       | y, State, Zip:                                                        |                                             |        |                            |              | 6            | Analy               | sis a               | nd Me          | tho    | d      |       |       |                  |          |            | RCRA    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | te, Zip: Carls                      |                           | 88220                      |                                        | Ph                        | one: (337)319-8398                                                    |                                             | 1      | by                         |              |              |                     |                     |                |        |        |       |       |                  |          |            |         |
| one: 575-988-0055                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     |                           |                            |                                        | Em                        | nail: clinton.talley@matador                                          | resources.com                               |        | ORO                        |              |              |                     | 504                 |                |        |        |       |       |                  | St       | tate       |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | igiovengo@e                         | nsolum.                   | com                        |                                        |                           |                                                                       |                                             |        | RO/0                       |              |              |                     | + 0.0               |                |        | Z      |       |       | NM               | O U1     | T AZ       | TX      |
| port o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | due by:                             |                           |                            |                                        | / 1                       |                                                                       |                                             |        | 0/0                        | 802          | 826          | 5010                | 300                 | I              |        | 100    |       | ¥     | ×                |          |            |         |
| Time<br>Sampled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Date Sampled                        | Matrix                    | No. of<br>Containers       | Sample ID                              |                           | 1                                                                     | Lab<br>Number                               |        | TPH GRO/DRO/ORO by<br>8015 | BTEX by 8021 | VOC by 8260  | Metals 6010         | Chloride 300.0 +504 | тсео трн       |        | BGDOC  |       | GDOC  |                  | Rei      | marks      |         |
| 11:56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1/30/2024                           | Soil                      | 1                          |                                        |                           | ВН02 - 3'                                                             |                                             |        |                            |              |              |                     | x                   |                |        |        |       |       |                  | J        | J-Flag     |         |
| 1:58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1/30/2024                           | Soil                      | 1                          |                                        |                           | BH02 - 4'                                                             | 2                                           |        |                            |              |              |                     | х                   |                |        |        |       |       |                  |          | J-Flag     |         |
| 11:59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1/30/2024                           | Soil                      | 1                          |                                        |                           | BH02 - 5'                                                             | 3                                           |        |                            |              |              |                     | х                   |                |        |        |       |       |                  | J        | J-Flag     |         |
| 12:01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1/30/2024                           | Soil                      | 1                          |                                        |                           | BH02 - 6'                                                             | G                                           |        |                            |              |              |                     | х                   |                |        |        |       |       |                  | j        | J-Flag     |         |
| Addition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | al Instructio                       | ns: Plea                  | ase CC: ck                 | urton@ensol                            | um.com                    | , agiovengo@ensolum.com,                                              | chamilton@e                                 | nsol   | um.co                      | om,          | ehaf         | t@en                | solu                | m.co           | m, id  | estre  | ella@ | enso  | lum.com          |          |            |         |
| The state of the s |                                     |                           |                            | y of this sample. I                    |                           | hat tampering with or intentionally mis<br>Sampled by: Cole Burt      |                                             | e loca | tion,                      |              |              |                     |                     |                |        |        |       |       | eived on ice the |          |            | or      |
| Relinquish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ed by: (Signatur                    | *                         | Date                       | 3/-24 Time                             | 300                       | Received by: (Signature)                                              | Date /-3/-2                                 | 24     |                            | 05           | 5            | Recei               |                     |                |        | La     |       | e Onl |                  |          |            |         |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ed by: (Signatur                    | 1                         | And Advent                 |                                        | 605                       | Received by: (Signature)                                              | Date /-31-1                                 | 24     | Time /                     | 84           | 0            | <u>T1</u>           |                     |                | _      | T2     |       |       | <u></u>          |          |            |         |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ed by: (Sippratur                   |                           | 2                          |                                        | 225                       | Received by: (Signature)                                              | 6201                                        | 24     | OS                         | 500          |              | AVG                 | Tem                 | p °C_          | 4      |        |       |       |                  |          |            | = 1     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | rix: S - Soil, Sd - S               |                           |                            |                                        |                           |                                                                       | Container                                   | Тур    | e: g - g                   | lass,        | <b>p</b> - p | oly/pla             | astic               | ag - a         | ambe   | er gla | ss, v | - VOA |                  |          |            |         |
| Note: Sam<br>samples is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ples are discard<br>applicable only | ed 30 days<br>to those sa | after resul<br>amples rece | ts are reported u<br>rived by the labo | nless othe<br>ratory with | r arrangements are made. Hazaron this COC. The liability of the labor | dous samples will I<br>ratory is limited to | the    | turned<br>amoun            | to cli       | ient o       | r dispo<br>in the r | sed o               | of at th<br>t. | e clie | ent ex | pense | . The | report for th    | e analys | sis of the | : above |

Printed: 2/2/2024 3:01:02PM

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

| Phone: (973)371-2300 Doe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Client:     | Matador Resources, LLC.                                   | Date Received:   | 02/01/24 | 09:34           |            | Work Order ID:  | E402009        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------|------------------|----------|-----------------|------------|-----------------|----------------|
| Email giovago@ensolunn.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Phone:      | (972) 371-5200                                            | Date Logged In:  | 02/01/24 | 09:34           |            | Logged In By:   | Alexa Michaels |
| Chain of Custody (COC)  1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC yes 3. Were samples dopped of IPs ye into the carrier? 4. Was the COC complete, i.e., signatures, datestimes, requested analyses? 5. Were all sample secretived within boding time? 5. Were all sample secretived within boding time? 6. Bid the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 7. Was a sample cooler received? 8. Were sample (so preceived) 8. If yes, was cooler received intect, i.e., not broken? 9. Was the sample (so) received intect, i.e., not broken? 10. Were custody/security seals intate? 11. If yes, were custody/security seals intate? 12. Was the sample received in its or required, if samples are received will 5 minutes of sampling 13. If no visible is, excoult the temperature. Actual sample temperature: \$\frac{1}{2}C\$  8. Sample Cooler. 14. Are aspectos VCC samples collected in VOA Vials? 16. Is the fead space less than 6-8 mm (pea sized or less)? 17. Was a trip black (Tb) included for VCC analyses? 18. Are non-VCC samples collected in the orrect containers? 19. Is the appropriate volume/weight or number of sample comainers collected? 19. Were fleat sample labels filled out with the minimum information: 19. Is the appropriate volume/weight or number of sample comainers collected? 19. Were fleat sample labels filled out with the minimum information: 20. Were fleat sample labels folled out with the minimum information: 21. Does the COC or field labels indicate the samples were preserved? 22. Are samples (or field labels indicate the samples were preserved? 23. Lover fleat sample labels filled out with the minimum information: 24. Label 10. South fleat the samples were preserved? 25. Lover fleat sample labels filled out with the minimum information: 26. Lover the sample have more than one phase, i.e., multiphase? 27. Lover, fleat sample labels filled out with the minimum information: 28. Label filterant required and for requested for dissol |             |                                                           |                  |          |                 |            |                 |                |
| Does the sample ID match the COC?   Yes   2. Does the number of sampling site location match the COC   Yes   2. Does the number of sampling site location match the COC   Yes   2. Wes the COC complete, i.e., signatures, dates/times, requested analyses?   Yes   Note: Analysis, such as pH which should be conducted in the field, i.e. 15 minute hold time, are not included in this discussion.   Yes   Note: Analysis, such as pH which should be conducted in the field, i.e. 15 minute hold time, are not included in this discussion.   Yes   Sample Tour Around Time (TAY)   Sample Tour Around Time (TAY)   Yes   Sample Cooler received?   Yes   Sample Cooler received?   Yes   Sample Cooler received?   Yes      |             |                                                           |                  |          |                 |            |                 |                |
| 2. Does the number of samples per sampling site location match the COC 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? 5. Were all samples received within holding time? 5. Were all samples received within holding time? 7. Was a sample to Col indicate standard TAT; or Expedited TAT? 7. Did the COC indicate standard TAT; or Expedited TAT? 7. Was a sample cooler received? 7. Was a sample received in good condition? 7. Was a sample received in good to an interpretation of the control   | Chain of    | Custody (COC)                                             |                  |          |                 |            |                 |                |
| 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? 5. Were all samples received within holding time? 6. Did the COC indicate standard TATI, or Expedited TAT? 7. Was a sample cooler received? 7. Was a sample cooler received? 7. Was a sample cooler received in good condition? 7. Was a sample cooler received in good condition? 8. Klyse, was cooler received in good condition? 9. Was the sample sarpresent? 10. Were custody/security seals present? 11. If yes, were custody/security seals present? 12. Was the sample received on less? If yes, the recorded temp is 4°C, i.e., 6°42°C Note Themap preservation is not required, if samples are received will 15 minutes of sampling 13. If no visible ics, record the temperature. Actual sample temperature: 4°C 8 sample Container 14. Are aqueous VOC samples collected in VOA Visils? 15. Are VOC samples collected in VOA Visils? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the paperpiate volume/weight or number of sample containers? 20. Were field Label 20. Were field sample labels filled out with the minimum information: 21. Sample Dreserved? 22. Are sample(s) correctly preserved? 23. Less a sample correctly correctly preserved? 24. Is lab filteration required and/or requested for dissolved metals? 25. Loss the sample have more than one phase, i.e., multiphase? 26. Loss the sample have more than one phase, i.e., multiphase? 27. If yes, does the COC specify which phase(s) is to be analyzed? 28. Are samples required to get sent to a subcontract laboratory as subcontract Laboratory specified by the client and if so who? 29. Was a subcontract Laboratory specified by the client and if so who? 29. Was a subcontract Laboratory specified by the client and if so who? 29. Was a subcontract Laboratory specified by the client and if so who   | 1. Does th  | ne sample ID match the COC?                               |                  | Yes      |                 |            |                 |                |
| 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? Note: Analysis, such as pif which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.  Samuel Turn Around Time (TAT) 6. Did the COC indicate standard TAT; or Expedited TAT?  Yes  Sample Cooler 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample (s) received intact, i.e., not broken? 10. Were custody/security seals present? 11. If yes, were custody/security seals intact? 12. Was the sample received on ise? If yes, the recended temp is 4°C, i.e., 6°2°C Note Themad preservation is not required, if samples are received wil 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C  Sample Container 14. Are angeous VOC samples present? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the papporpiate volume/weight or number of sample containers collected? 20. Were field sample labels filled out with the minimum information: 21. Sample Treservation 22. Less sample) correctly preserved? 22. Are sample) correctly preserved? 23. Less and Collector in the correct containers or less of the COC or field labels indicate the samples were preserved? 24. Is lab filteration required and/or requested for dissolved metals? 25. Less as a subcontract laboratory. 26. Less are sample have more than one phase, i.e., multiphase? 27. If yes, does the COC specify which phase(s) is to be analyzed? 28. Are samples required to get sent to a subcontract laboratory? 29. Was a subcontract Laboratory specified by the client and if so who? 29. Was a subcontract Laboratory specified by the client and if so who?                                                             | 2. Does th  | ne number of samples per sampling site location ma        | tch the COC      | Yes      |                 |            |                 |                |
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| i.e. 15 minute hold time, are not included in this dissuession.  Samulo Turn Around Time (TAT)  6. Did the COOL indicate standard TAT, or Expedited TAT?  7 was a sample cooler received?  8. If yes, was cooler received in good condition?  9. Was the sample (s) received in good condition?  9. Was the sample (s) received intact, i.e., not broken?  10. Were custody/security seals present?  11. If yes, were custody/security seals intact?  12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°82°C  Note: Thermal preservation is not required, if samples are received wii 15 minutes of sampling minutes of sampling in the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°82°C  Note: Thermal preservation is not required, if samples are received wii 15 minutes of sampling presentite is not required, if samples are received wii 15 minutes of samples governed the temperature. Actual sample temperature: 4°C  8. Samulo Container  14. Are aqueous VOC samples present?  15. Are VOC samples collected in VOA Vala?  16. Is the head space less than 6-8 mm (pea sized or less)?  NA  17. Was a trip blank (TB) included for VOC analyses?  19. Is the appropriate volume/weight or number of sample containers collected?  Yes  Field Label  20. Were field sample labels filled out with the minimum information:  Sample ID?  Ocallectors name?  No  Sample Preservation  21. Does the COC of ried I abels indicate the samples were preserved?  No  22. Are sample(s) correctly preserved?  Act I slab filteration required and/or requested for dissolved metals?  No  Samulo Every and the sample have more than one phase, i.e., multiphase?  No  Samulo Every and the sample have more than one phase, i.e., multiphase?  No  Samulo Every and the sample have more than one phase, i.e., multiphase?  No  Samulo Every and the sample have more than one phase, i.e., multiphase?  No  Samulo Every and the sample have more than one phase, i.e., multiphase?  No  Subcontract Laboratory  No  Subcontract Laboratory specified by the client a   |             |                                                           | •                | Yes      |                 |            |                 |                |
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| 14. Are aqueous VOC samples present?  No  15. Are VOC samples collected in VOA Vials?  NA  16. Is the head space less than 6-8 mm (pea sized or less)?  NA  17. Was a trip blank (TB) included for VOC analyses?  NA  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  Yes  Field Label  20. Were field sample labels filled out with the minimum information:  Sample ID?  Date/Time Collected? Collectors name?  No  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved?  No  22. Are sample(s) correctly preserved?  NA  Als lab filteration required and/or requested for dissolved metals?  No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase?  No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No  Subcontract Laboratory  No  Subcontract Laboratory specified by the client and if so who?  NA  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 13. If no v | visible ice, record the temperature.  Actual sample       | temperature: 4°0 | <u>C</u> |                 |            |                 |                |
| 15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip blank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Were field sample labels filled out with the minimum information:  Sample ID?  Date/Time Collected?  Collectors name?  10. Does the COC or field labels indicate the samples were preserved?  11. Does the COC or field labels indicate the samples were preserved?  12. Are sample(s) correctly preserved?  13. Is lab filteration required and/or requested for dissolved metals?  14. Is lab filteration required and/or requested for dissolved metals?  15. Does the sample have more than one phase, i.e., multiphase?  16. Does the sample have more than one phase, i.e., multiphase?  17. If yes, does the COC specify which phase(s) is to be analyzed?  18. Are samples required to get sent to a subcontract laboratory?  18. Are samples required to get sent to a subcontract laboratory?  18. Are samples required to get sent to a subcontract laboratory?  19. No  No  Subcontract Laboratory  No  No  No  No  Subcontract Laboratory  No  No  No  No  No  No  No  No  No  N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sample C    | <u>Container</u>                                          |                  |          |                 |            |                 |                |
| 16. Is the head space less than 6-8 mm (pea sized or less)?  NA  17. Was a trip blank (TB) included for VOC analyses?  NA  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Were field sample labels filled out with the minimum information:  Sample ID?  Date/Time Collected?  Collectors name?  10. Does the COC or field labels indicate the samples were preserved?  11. Does the COC or field labels indicate the samples were preserved?  NA  22. Are sample(s) correctly preserved?  NA  24. Is lab filteration required and/or requested for dissolved metals?  No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase?  No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  NA  Subcontract Laboratory specified by the client and if so who?  NA  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 14. Are ac  | queous VOC samples present?                               |                  | No       |                 |            |                 |                |
| 17. Was a trip blank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Were field sample labels filled out with the minimum information:  Sample ID?  Date/Time Collected?  Collectors name?  10. No  Sample Preservation  11. Does the COC or field labels indicate the samples were preserved?  12. Are sample(s) correctly preserved?  13. Is lab filteration required and/or requested for dissolved metals?  14. Is lab filteration required and/or requested for dissolved metals?  15. Does the sample have more than one phase, i.e., multiphase?  16. Does the sample have more than one phase, i.e., multiphase?  17. If yes, does the COC specify which phase(s) is to be analyzed?  18. Are samples required to get sent to a subcontract laboratory?  18. Are samples required to get sent to a subcontract laboratory?  18. As subcontract Laboratory specified by the client and if so who?  No  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 15. Are V   | OC samples collected in VOA Vials?                        |                  | NA       |                 |            |                 |                |
| 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume/weight or number of sample containers collected?  Field Label 20. Were field sample labels filled out with the minimum information:  Sample ID?  Date/Time Collected?  Collectors name?  No  Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? No  22. Are sample(s) correctly preserved? No  Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase? No  No  Multiphase to COC specify which phase(s) is to be analyzed? No  Subcontract Laboratory 28. Are samples required to get sent to a subcontract laboratory? No  No  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16. Is the  | head space less than 6-8 mm (pea sized or less)?          |                  | NA       |                 |            |                 |                |
| 19. Is the appropriate volume/weight or number of sample containers collected?  Field Label  20. Were field sample labels filled out with the minimum information: Sample ID? Date/Time Collected? Collectors name?  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? No Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase? No  Multiphase COC or specify which phase(s) is to be analyzed? No Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory? No Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 17. Was a   | trip blank (TB) included for VOC analyses?                |                  | NA       |                 |            |                 |                |
| Field Label  20. Were field sample labels filled out with the minimum information: Sample ID? Date/Time Collected? No Collectors name?  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? No 44. Is lab filteration required and/or requested for dissolved metals? No Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase? No 77. If yes, does the COC specify which phase(s) is to be analyzed? No Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory? No Subcontract Laboratory specified by the client and if so who? No Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 18. Are no  | on-VOC samples collected in the correct containers        | ?                | Yes      |                 |            |                 |                |
| 20. Were field sample labels filled out with the minimum information: Sample ID? Date/Time Collected? Collectors name? No  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved? No  22. Are sample(s) correctly preserved? No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase? No  71. If yes, does the COC specify which phase(s) is to be analyzed? No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory? No  No  Subcontract Laboratory specified by the client and if so who? No  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 19. Is the  | appropriate volume/weight or number of sample contain     | ners collected?  | Yes      |                 |            |                 |                |
| Sample ID? Date/Time Collected? Collectors name? No  Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? No Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase? No 27. If yes, does the COC specify which phase(s) is to be analyzed? NA  Subcontract Laboratory 28. Are samples required to get sent to a subcontract laboratory? No No Subcontract Laboratory specified by the client and if so who? NA Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Field Lab   | <u>oel</u>                                                |                  |          |                 |            |                 |                |
| Date/Time Collected? Collectors name? No Sample Preservation  21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? No Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase? No 7. If yes, does the COC specify which phase(s) is to be analyzed? No Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory? No No Subcontract Laboratory specified by the client and if so who? NA Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20. Were    | —<br>field sample labels filled out with the minimum info | ormation:        |          |                 |            |                 |                |
| Collectors name?  No  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved?  No  22. Are sample(s) correctly preserved?  No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase?  No  7. If yes, does the COC specify which phase(s) is to be analyzed?  No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No  No  Subcontract Laboratory specified by the client and if so who?  No  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | S           | ample ID?                                                 |                  | Yes      |                 |            |                 |                |
| Sample Preservation  21. Does the COC or field labels indicate the samples were preserved?  22. Are sample(s) correctly preserved?  23. Is lab filteration required and/or requested for dissolved metals?  24. Is lab filteration required and/or requested for dissolved metals?  25. Does the sample Matrix  26. Does the sample have more than one phase, i.e., multiphase?  27. If yes, does the COC specify which phase(s) is to be analyzed?  No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No  No  Subcontract Laboratory specified by the client and if so who?  NA  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                                                           |                  | No       | '               |            |                 |                |
| 21. Does the COC or field labels indicate the samples were preserved?  22. Are sample(s) correctly preserved?  23. Are sample(s) correctly preserved?  24. Is lab filteration required and/or requested for dissolved metals?  25. Does the sample Matrix  26. Does the sample have more than one phase, i.e., multiphase?  27. If yes, does the COC specify which phase(s) is to be analyzed?  28. Are samples required to get sent to a subcontract laboratory?  29. Was a subcontract Laboratory specified by the client and if so who?  No  No  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                                                           |                  | No       |                 |            |                 |                |
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| 24. Is lab filteration required and/or requested for dissolved metals?  No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase?  No  27. If yes, does the COC specify which phase(s) is to be analyzed?  NA  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No  29. Was a subcontract laboratory specified by the client and if so who?  NA  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | • • •                                                     | reservea?        |          |                 |            |                 |                |
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| 27. If yes, does the COC specify which phase(s) is to be analyzed?  NA  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No  29. Was a subcontract laboratory specified by the client and if so who?  NA  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                                                           |                  |          |                 |            |                 |                |
| Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No  29. Was a subcontract laboratory specified by the client and if so who?  NA Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |                                                           |                  |          |                 |            |                 |                |
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| 29. Was a subcontract laboratory specified by the client and if so who?  NA Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Subcontr    | act Laboratory                                            |                  |          |                 |            |                 |                |
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| Client Instruction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 29. Was a   | subcontract laboratory specified by the client and is     | f so who?        | NA       | Subcontract Lab | : NA       |                 |                |
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Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Charlie Sweeney Fed TB

Work Order: E402011

Job Number: 23052-0001

Received: 2/1/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/7/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/7/24

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Charlie Sweeney Fed TB

Workorder: E402011

Date Received: 2/1/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/1/2024 8:00:00AM, under the Project Name: Charlie Sweeney Fed TB.

The analytical test results summarized in this report with the Project Name: Charlie Sweeney Fed TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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### **Sample Summary**

| Matador Resources, LLC.      | Project Name: Charlie Sweeney Fed TB |                 | Danautada      |
|------------------------------|--------------------------------------|-----------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:                      | 23052-0001      | Reported:      |
| Dallas TX, 75240             | Project Manager:                     | Ashley Giovengo | 02/07/24 14:34 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| FS20-3'          | E402011-01A   | Soil   | 01/30/24 | 02/01/24 | Glass Jar, 2 oz. |
| FS21-3'          | E402011-02A   | Soil   | 01/30/24 | 02/01/24 | Glass Jar, 2 oz. |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/7/2024 2:34:18PM |

### FS20-3' E402011-01

|             | E402011-01                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Result      | Reporting<br>Limit                              | Dilution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Prepared                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Analyzed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| mg/kg       | mg/kg                                           | mg/kg Analyst: BA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Batch: 2405122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ND          | 0.0250                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/02/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 02/03/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ND          | 0.0250                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/02/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 02/03/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ND          | 0.0250                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/02/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 02/03/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ND          | 0.0250                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/02/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 02/03/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ND          | 0.0500                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/02/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 02/03/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ND          | 0.0250                                          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/02/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 02/03/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|             | 95.3 %                                          | 70-130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 02/02/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 02/03/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| mg/kg mg/kg |                                                 | Analy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | st: BA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Batch: 2405122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ND          | 20.0                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/02/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 02/03/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|             | 92.6 %                                          | 70-130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 02/02/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 02/03/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| mg/kg       | mg/kg                                           | ng/kg Analyst: KM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Batch: 2406038                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ND          | 25.0                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/06/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 02/07/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ND          | 50.0                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 02/06/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 02/07/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|             | 92.3 %                                          | 50-200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 02/06/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 02/07/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| mg/kg       | mg/kg                                           | Analy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | st: IY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Batch: 2406013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 281         | 200                                             | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 02/05/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 02/05/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|             | mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg | Result         Reporting           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         20.0250           MB/kg         mg/kg           MB/kg         mg/kg           ND         20.0           92.6 %         Mg/kg           ND         25.0           ND         50.0           92.3 %         mg/kg           mg/kg         mg/kg | Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Analyst           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           MD         0.0250         1           MD         20.250         1           Mg/kg         mg/kg         Analyst           ND         20.0         1           92.6 %         70-130           mg/kg         mg/kg         Analyst           ND         25.0         1           ND         50.0         1           92.3 %         50-200           mg/kg         Mg/kg         Analyst | Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         02/02/24           ND         0.0250         1         02/02/24           ND         0.0250         1         02/02/24           ND         0.0500         1         02/02/24           ND         0.0250         1         02/02/24           ND         0.0250         1         02/02/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         02/02/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         02/02/24           ND         50.0         1         02/06/24           ND         50.0         1         02/06/24           ND         50.0         1         02/06/24           mg/kg         mg/kg         Analyst: KM | Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         02/02/24         02/03/24           ND         0.0250         1         02/02/24         02/03/24           ND         0.0250         1         02/02/24         02/03/24           ND         0.0500         1         02/02/24         02/03/24           ND         0.0250         1         02/02/24         02/03/24           ND         0.0250         1         02/02/24         02/03/24           MD         0.0250         1         02/02/24         02/03/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         02/02/24         02/03/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         02/02/24         02/03/24           ND         50.0         1         02/06/24         02/07/24           ND         50.0         1         02/06/24         02/07/24           ND         50.0         1         02/06/24 |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/7/2024 2:34:18PM |

#### FS21-3'

| E402   | A1 | 1 1/1   |
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| H.4117 |    | 1 -11 / |
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|        | Ranartina                                    |                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Result | Limit                                        | Dilution                                                                                                                                                                                                                                                                                                                                                                                                        | Prepared                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Analyzed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| mg/kg  | mg/kg                                        | Analys                                                                                                                                                                                                                                                                                                                                                                                                          | t: BA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Batch: 2405122  Batch: 2406038                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ND     | 0.0250                                       | 1                                                                                                                                                                                                                                                                                                                                                                                                               | 02/02/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 02/03/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0250                                       | 1                                                                                                                                                                                                                                                                                                                                                                                                               | 02/02/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 02/03/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0250                                       | 1                                                                                                                                                                                                                                                                                                                                                                                                               | 02/02/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 02/03/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0250                                       | 1                                                                                                                                                                                                                                                                                                                                                                                                               | 02/02/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 02/03/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0500                                       | 1                                                                                                                                                                                                                                                                                                                                                                                                               | 02/02/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 02/03/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 0.0250                                       | 11                                                                                                                                                                                                                                                                                                                                                                                                              | 02/02/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 02/03/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | 95.9 %                                       | 70-130                                                                                                                                                                                                                                                                                                                                                                                                          | 02/02/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 02/03/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| mg/kg  | mg/kg                                        | Analys                                                                                                                                                                                                                                                                                                                                                                                                          | t: BA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Batch: 2405122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ND     | 20.0                                         | 1                                                                                                                                                                                                                                                                                                                                                                                                               | 02/02/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 02/03/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | 92.1 %                                       | 70-130                                                                                                                                                                                                                                                                                                                                                                                                          | 02/02/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 02/03/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| mg/kg  | mg/kg                                        | Analys                                                                                                                                                                                                                                                                                                                                                                                                          | t: KM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Batch: 2406038                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ND     | 25.0                                         | 1                                                                                                                                                                                                                                                                                                                                                                                                               | 02/06/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 02/07/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ND     | 50.0                                         | 1                                                                                                                                                                                                                                                                                                                                                                                                               | 02/06/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 02/07/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | 89.0 %                                       | 50-200                                                                                                                                                                                                                                                                                                                                                                                                          | 02/06/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 02/07/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| mg/kg  | mg/kg                                        | Analys                                                                                                                                                                                                                                                                                                                                                                                                          | t: IY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Batch: 2406013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| mg/Kg  | mg kg                                        |                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | mg/kg ND | mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         25.9 %           mg/kg         mg/kg           ND         20.0           92.1 %         mg/kg           ND         25.0           ND         50.0           89.0 % | Result         Limit         Dilution           mg/kg         mg/kg         Analys           ND         0.0250         1           MD         0.0250         1           MD         70-130         Analys           ND         20.0         1           Mg/kg         mg/kg         Analys           ND         25.0         1           ND         50.0         1           89.0 %         50-200 | Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         02/02/24           ND         0.0250         1         02/02/24           ND         0.0250         1         02/02/24           ND         0.0500         1         02/02/24           ND         0.0250         1         02/02/24           ND         0.0250         1         02/02/24           mg/kg         70-130         02/02/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         02/02/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         02/06/24           ND         50.0         1         02/06/24           89.0 %         50-200         02/06/24 | Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: BA           ND         0.0250         1         02/02/24         02/03/24           ND         0.0250         1         02/02/24         02/03/24           ND         0.0250         1         02/02/24         02/03/24           ND         0.0500         1         02/02/24         02/03/24           ND         0.0250         1         02/02/24         02/03/24           ND         0.0250         1         02/02/24         02/03/24           MD         0.0250         1         02/02/24         02/03/24           MD         0.0250         1         02/02/24         02/03/24           mg/kg         mg/kg         Analyst: BA           ND         20.0         1         02/02/24         02/03/24           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         02/06/24         02/07/24           ND         50.0         1         02/06/24         02/07/24           89.0 %         50-200         02/06/24         02/07/24 |



Surrogate: 4-Bromochlorobenzene-PID

7.73

#### **QC Summary Data**

Matador Resources, LLC. Project Name: Charlie Sweeney Fed TB

5400 LBJ Freeway, Suite 1500 Project Number: 23052-0001

Dallas TX, 75240 Project Manager: Ashley Giovengo 2/7/2024 2:34:18PM

| Dallas TX, 75240                    |        | Project Number:<br>Project Manager: |                | shley Giovengo   | 0    |               |             |              | 2/7/2024 2:34:18PM |
|-------------------------------------|--------|-------------------------------------|----------------|------------------|------|---------------|-------------|--------------|--------------------|
|                                     |        | Volatile O                          | rganics b      | y EPA 802        | 1B   |               |             |              | Analyst: BA        |
| Analyte                             | Result | Reporting<br>Limit                  | Spike<br>Level | Source<br>Result | Rec  | Rec<br>Limits | RPD         | RPD<br>Limit |                    |
|                                     | mg/kg  | mg/kg                               | mg/kg          | mg/kg            | %    | %             | %           | %            | Notes              |
| Blank (2405122-BLK1)                |        |                                     |                |                  |      |               | Prepared: 0 | 2/02/24 A    | nalyzed: 02/04/24  |
| Benzene                             | ND     | 0.0250                              |                |                  |      |               |             |              |                    |
| Ethylbenzene                        | ND     | 0.0250                              |                |                  |      |               |             |              |                    |
| Toluene                             | ND     | 0.0250                              |                |                  |      |               |             |              |                    |
| o-Xylene                            | ND     | 0.0250                              |                |                  |      |               |             |              |                    |
| p,m-Xylene                          | ND     | 0.0500                              |                |                  |      |               |             |              |                    |
| Total Xylenes                       | ND     | 0.0250                              |                |                  |      |               |             |              |                    |
| Surrogate: 4-Bromochlorobenzene-PID | 7.68   |                                     | 8.00           |                  | 96.0 | 70-130        |             |              |                    |
| LCS (2405122-BS1)                   |        |                                     |                |                  |      |               | Prepared: 0 | 2/02/24 A    | nalyzed: 02/04/24  |
| Benzene                             | 4.65   | 0.0250                              | 5.00           |                  | 93.0 | 70-130        |             |              |                    |
| Ethylbenzene                        | 4.52   | 0.0250                              | 5.00           |                  | 90.3 | 70-130        |             |              |                    |
| Toluene                             | 4.64   | 0.0250                              | 5.00           |                  | 92.8 | 70-130        |             |              |                    |
| o-Xylene                            | 4.58   | 0.0250                              | 5.00           |                  | 91.6 | 70-130        |             |              |                    |
| p,m-Xylene                          | 9.23   | 0.0500                              | 10.0           |                  | 92.3 | 70-130        |             |              |                    |
| Total Xylenes                       | 13.8   | 0.0250                              | 15.0           |                  | 92.1 | 70-130        |             |              |                    |
| Surrogate: 4-Bromochlorobenzene-PID | 7.73   |                                     | 8.00           |                  | 96.6 | 70-130        |             |              |                    |
| LCS Dup (2405122-BSD1)              |        |                                     |                |                  |      |               | Prepared: 0 | 2/02/24 A    | nalyzed: 02/04/24  |
| Benzene                             | 4.83   | 0.0250                              | 5.00           |                  | 96.6 | 70-130        | 3.75        | 20           |                    |
| Ethylbenzene                        | 4.70   | 0.0250                              | 5.00           |                  | 93.9 | 70-130        | 3.88        | 20           |                    |
| Toluene                             | 4.81   | 0.0250                              | 5.00           |                  | 96.3 | 70-130        | 3.62        | 20           |                    |
| o-Xylene                            | 4.77   | 0.0250                              | 5.00           |                  | 95.3 | 70-130        | 3.92        | 20           |                    |
| p,m-Xylene                          | 9.60   | 0.0500                              | 10.0           |                  | 96.0 | 70-130        | 3.86        | 20           |                    |
| Total Xylenes                       | 14.4   | 0.0250                              | 15.0           |                  | 95.8 | 70-130        | 3.88        | 20           |                    |

70-130



#### **QC Summary Data**

Matador Resources, LLC.Project Name:Charlie Sweeney Fed TBReported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo2/7/20242:34:18PM

| Nonhalogenated Organics by | <b>EPA 8015D - GRO</b> |
|----------------------------|------------------------|
|----------------------------|------------------------|

Analyst: BA

| Analyte | Result | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec | Rec<br>Limits | RPD | RPD<br>Limit |       |
|---------|--------|--------------------|----------------|------------------|-----|---------------|-----|--------------|-------|
|         | mg/kg  | mg/kg              | mg/kg          | mg/kg            | %   | %             | %   | %            | Notes |

| Blank (2405122-BLK1)                    |      |      |      |      |        | Prepared: 02 | 2/02/24 | Analyzed: 02/04/24 |
|-----------------------------------------|------|------|------|------|--------|--------------|---------|--------------------|
| Gasoline Range Organics (C6-C10)        | ND   | 20.0 |      |      |        |              |         |                    |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.35 |      | 8.00 | 91.8 | 70-130 |              |         |                    |
| LCS (2405122-BS2)                       |      |      |      |      |        | Prepared: 02 | 2/02/24 | Analyzed: 02/04/24 |
| Gasoline Range Organics (C6-C10)        | 45.6 | 20.0 | 50.0 | 91.3 | 70-130 |              |         |                    |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.49 |      | 8.00 | 93.6 | 70-130 |              |         |                    |
| LCS Dup (2405122-BSD2)                  |      |      |      |      |        | Prepared: 02 | 2/02/24 | Analyzed: 02/04/24 |
| Gasoline Range Organics (C6-C10)        | 47.1 | 20.0 | 50.0 | 94.1 | 70-130 | 3.09         | 20      |                    |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.44 |      | 8.00 | 93.0 | 70-130 |              |         |                    |



#### **QC Summary Data**

Matador Resources, LLC.Project Name:Charlie Sweeney Fed TBReported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo2/7/20242:34:18PM

| Dullus 171, 752 10              |        |                    |                |                  |          |               |             |              |                |
|---------------------------------|--------|--------------------|----------------|------------------|----------|---------------|-------------|--------------|----------------|
|                                 | Nonha  | logenated Or       | ganics by      | EPA 8015I        | ) - DRO  | /ORO          |             |              | Analyst: KM    |
| Analyte                         | Result | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec      | Rec<br>Limits | RPD         | RPD<br>Limit |                |
|                                 | mg/kg  | mg/kg              | mg/kg          | mg/kg            | %        | %             | %           | %            | Notes          |
| Blank (2406038-BLK1)            |        |                    |                |                  |          |               | Prepared: 0 | 2/06/24 Anal | yzed: 02/06/24 |
| Diesel Range Organics (C10-C28) | ND     | 25.0               |                |                  |          |               |             |              |                |
| Oil Range Organics (C28-C36)    | ND     | 50.0               |                |                  |          |               |             |              |                |
| Surrogate: n-Nonane             | 44.7   |                    | 50.0           |                  | 89.3     | 50-200        |             |              |                |
| LCS (2406038-BS1)               |        |                    |                |                  |          |               | Prepared: 0 | 2/06/24 Anal | yzed: 02/06/24 |
| Diesel Range Organics (C10-C28) | 251    | 25.0               | 250            |                  | 100      | 38-132        |             |              |                |
| Surrogate: n-Nonane             | 44.2   |                    | 50.0           |                  | 88.4     | 50-200        |             |              |                |
| Matrix Spike (2406038-MS1)      |        |                    |                | Source:          | E402004- | 02            | Prepared: 0 | 2/06/24 Anal | yzed: 02/06/24 |
| Diesel Range Organics (C10-C28) | 249    | 25.0               | 250            | ND               | 99.5     | 38-132        |             |              |                |
| Surrogate: n-Nonane             | 48.7   |                    | 50.0           |                  | 97.5     | 50-200        |             |              |                |
| Matrix Spike Dup (2406038-MSD1) |        |                    |                | Source:          | E402004- | 02            | Prepared: 0 | 2/06/24 Anal | yzed: 02/06/24 |
| Diesel Range Organics (C10-C28) | 246    | 25.0               | 250            | ND               | 98.4     | 38-132        | 1.17        | 20           |                |
| Surrogate: n-Nonane             | 47.8   |                    | 50.0           |                  | 95.5     | 50-200        |             |              |                |

Chloride

#### **QC Summary Data**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB | Reported:          |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | •                  |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/7/2024 2:34:18PM |

Anions by EPA 300.0/9056A

|                        |        | Anions             |                | Analyst: IY      |     |               |             |              |                 |
|------------------------|--------|--------------------|----------------|------------------|-----|---------------|-------------|--------------|-----------------|
| Analyte                | Result | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec | Rec<br>Limits | RPD         | RPD<br>Limit |                 |
|                        | mg/kg  | mg/kg              | mg/kg          | mg/kg            | %   | %             | %           | %            | Notes           |
| Blank (2406013-BLK1)   |        |                    |                |                  |     |               | Prepared: 0 | 2/05/24 Ana  | lyzed: 02/05/24 |
| Chloride               | ND     | 20.0               |                |                  |     |               |             |              |                 |
| LCS (2406013-BS1)      |        |                    |                |                  |     |               | Prepared: 0 | 2/05/24 Ana  | lyzed: 02/05/24 |
| Chloride               | 251    | 20.0               | 250            |                  | 101 | 90-110        |             |              |                 |
| LCS Dup (2406013-BSD1) |        |                    |                |                  |     |               | Prepared: 0 | 2/05/24 Ana  | lyzed: 02/05/24 |

250

20.0

103

90-110

2.03

257

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



#### **Definitions and Notes**

| l | Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                |
|---|------------------------------|------------------|------------------------|----------------|
| l | 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:      |
| ١ | Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 02/07/24 14:34 |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

| Client: Matador Production Company  Project: Charlie Sweeney Fed TB  Project Manager: Ashley Giovengo  Attention: Matador Production Company  Attention: Matador Production Company  Address: on file |                        |                |                      |                     | Bill To                                            |                      |          |                            | La        | ab U   | se Or       | nly            |             |         |        |        | TA         | AT                    | EPA P         | rogram   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------|----------------------|---------------------|----------------------------------------------------|----------------------|----------|----------------------------|-----------|--------|-------------|----------------|-------------|---------|--------|--------|------------|-----------------------|---------------|----------|
|                                                                                                                                                                                                       |                        |                |                      |                     | on Company                                         | Lak                  | WO#      | #                          |           | Job    | Num         | ber            |             | 1D      | 2D     | 3D     | Standard   | CWA                   | SDWA          |          |
|                                                                                                                                                                                                       |                        |                |                      |                     |                                                    |                      | E 402 ot |                            |           |        | 23052-0001  |                |             |         |        | 200    |            | Х                     |               |          |
|                                                                                                                                                                                                       | : 3122 Natio           |                |                      |                     | City, State, Zip:                                  |                      |          |                            |           |        | Analy       | sis a          | nd Me       | thod    | 1      |        |            |                       |               | RCRA     |
| -                                                                                                                                                                                                     | te, Zip: Carls         |                | 88220                |                     | Phone: (337)319-8398                               | -                    |          | by C                       |           |        |             |                |             |         |        |        |            |                       |               |          |
| 4                                                                                                                                                                                                     | 575-988-005            |                |                      |                     | Email: clinton.talley@matador                      | rresources.com       |          | ORC                        | 1         |        |             |                |             |         | [3]    |        |            |                       | State         |          |
| -                                                                                                                                                                                                     | igiovengo@e            | nsolum.        | com                  |                     |                                                    |                      |          | RO/                        | 21        | 0      | 0           | 0.0            |             |         | ΣN     |        | ×          | NM CO                 | UT AZ         | TX       |
| Report o                                                                                                                                                                                              | due by:                |                |                      |                     |                                                    |                      |          | 0/0                        | y 8021    | 8260   | 601         | e 30           | 표           |         |        |        |            | ×                     |               |          |
| Time<br>Sampled                                                                                                                                                                                       | Date Sampled           | Matrix         | No. of<br>Containers | Sample ID           |                                                    | Lab<br>Number        |          | TPH GRO/DRO/ORO by<br>8015 | BTEX by 8 | VOC by | Metals 6010 | Chloride 300.0 | тсед трн    |         | BGDOC  |        | GDOC       |                       | Remarks       |          |
| 11:24                                                                                                                                                                                                 | 1/30/2024              | Soil           | 1                    |                     | FS20 - 3'                                          | m                    |          |                            |           |        |             |                |             |         | х      |        |            |                       |               |          |
| 11:23                                                                                                                                                                                                 | 1/30/2024              | Soil           | 1                    |                     | FS21 - 3'                                          | 2                    |          |                            |           |        |             |                |             |         | х      |        |            |                       |               |          |
|                                                                                                                                                                                                       |                        |                |                      |                     |                                                    |                      |          |                            |           |        |             |                |             |         |        |        |            |                       |               |          |
|                                                                                                                                                                                                       |                        |                |                      |                     |                                                    | 71.15.15.            |          |                            |           |        |             |                |             |         |        |        |            |                       |               |          |
|                                                                                                                                                                                                       |                        |                |                      |                     |                                                    |                      |          |                            |           |        |             |                |             |         |        |        |            |                       |               |          |
|                                                                                                                                                                                                       |                        |                |                      |                     |                                                    |                      |          |                            |           |        |             |                |             |         |        |        |            |                       |               |          |
|                                                                                                                                                                                                       |                        |                |                      |                     |                                                    |                      |          |                            |           |        |             |                |             |         |        |        |            |                       |               |          |
|                                                                                                                                                                                                       |                        |                |                      |                     |                                                    |                      |          |                            |           |        |             |                |             |         |        |        |            |                       |               |          |
|                                                                                                                                                                                                       |                        |                |                      |                     |                                                    |                      |          |                            |           |        |             |                |             |         |        |        |            |                       |               |          |
|                                                                                                                                                                                                       |                        |                |                      |                     |                                                    |                      |          | -                          |           |        |             |                |             |         | -      |        |            |                       |               |          |
| Addition                                                                                                                                                                                              | al Instructio          | ns: Plea       | ase CC: cl           | ourton@enso         | lum.com, agiovengo@ensolum.com                     | , chamilton@e        | nso      | lum.c                      | om,       | ehaf   | t@er        | nsolu          | ım.co       | m, ie   | estre  | ella@  | enso       | olum.com              |               |          |
| I, (field sam                                                                                                                                                                                         | pler), attest to th    | e validity an  | d authentici         | ty of this sample.  | l am aware that tampering with or intentionally mi | islabelling the samp | le loc   | ation,                     |           |        |             |                |             |         |        |        |            | ceived on ice the day |               | led or   |
| date or tim                                                                                                                                                                                           | e of collection is o   | onsidered f    | raud and ma          | y be grounds for le | egal action. Sampled by: Cole Burt                 | ton                  |          |                            |           |        | receive     | d pack         | ed in ice a | at an a | vg tem | p abov | e 0 but le | ess than 6 °C on subs | equent days.  |          |
| Relinquished by: (Signature)  Date  Time  Received by: (Signature)  7: 30                                                                                                                             |                        |                |                      |                     |                                                    |                      | 24       | Time                       | 05        | 5      | Rece        | eived          | on ic       | e:      |        | b Us   | se Onl     | ly                    |               |          |
| 1                                                                                                                                                                                                     | ed by: (Signatur       | 2/_            | Date /·3             |                     | 405                                                | Date / - 3/-:        | 24       | Time                       |           | 6      | T1          |                |             |         | T2     |        |            | <u>T3</u>             |               |          |
| Relinquish                                                                                                                                                                                            | ed by: (Signatur       | e)             | Date                 | Time                | Received by: (Signature)                           | Date 02012           | 4        | Time                       | क्ष       | )      | AVG         | Ten            | np °C_      | 4       | 1      |        |            |                       |               |          |
| Sample Ma                                                                                                                                                                                             | trix: S - Soil, Sd - S | olid, Sg - Slu |                      |                     | ()                                                 | Containe             | _        | oe:g-                      | glass.    | _      |             |                |             | ambe    | er gla | 155, V | - VOA      |                       |               |          |
|                                                                                                                                                                                                       |                        |                |                      |                     | unless other arrangements are made. Hazard         |                      |          |                            |           |        |             |                |             |         |        |        |            |                       | analysis of t | he above |
| samples is                                                                                                                                                                                            | applicable only        | to those s     | amples rec           | eived by the labo   | oratory with this COC. The liability of the labo   | ratory is limited to | o the    | amou                       | nt paid   | d for  | on the      | repo           | rt.         |         |        |        |            | 200 - 100 707         | (A)           |          |



edient expense. The report for the analysis of the above

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Printed: 2/2/2024 3:06:49PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Client:    | Matador Resources, LLC.                                                        | Date Received:    | 02/01/24 | 08:00             |         | Work Order ID:   | E402011        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------|-------------------|----------|-------------------|---------|------------------|----------------|
| A land of Custody (COC)  1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 3. Does the number of samples per sampling site location match the COC 4. Was the COC complete, i.e. signatures, dates/times, requested analyses? 5. Were all samples received within holding time? 5. Were all samples received within holding time? 6. Were all samples received within holding time? 7. Were all samples received within holding time? 7. Were all samples to the COC indicate standard TAT; or Expedited TAT? 7. We as ample to received intent, i.e., not broken? 7. Was a sample cooler received in good condition? 7. Was a sample cooler received intent, i.e., not broken? 7. Were custody/security seals instard? 7. Was the sample(s) received intent, i.e., not broken? 7. Were custody/security seals instard? 7. Was the sample received nice? If yes, the recorded lump is 4°C, i.e., 6°±2°C 7. Note. Thermal preservation in the required, if animals are received will 5 minutes of sampling 7. If no visible is every different the temperature. 7. Actual sample temperature: 8. Sample Container 8. Are approach XOC samples collected in WOA Vials? 8. Are non-VOC samples collected in the correct containers? 9. Sample Container 19. It was arip blank (TB) included for VOC analyses? 19. It was arip blank (TB) included for VOC analyses? 19. It was a rip blank (TB) included for VOC analyses? 19. It was a rip blank (TB) included for VOC analyses? 10. Were field sample labels filled out with the minimum information: 10. Sample ID? 10. Date Time Collected? 10. Were field sample labels filled out with the minimum information: 11. It was a rip blank (TB) included for requested for dissolved metals? 12. Does the COC of field labels indicate the samples were preserved? 13. It was not possible to the correct containers? 14. It was not possible to the correct containers? 15. Are analyse to or field labels indicate the samples were preserved? 16. It was not possible to the correct containers? 17. We are the bla | Phone:     | (972) 371-5200                                                                 | Date Logged In:   | 02/01/24 | 09:42             |         | Logged In By:    | Alexa Michaels |
| 1. Does the sample ID match the COC?   2. Does the turnibor of samples per sampling site location match the COC   2. Does the turnibor of samples per sampling site location match the COC   3. Were amplisately received from the circle (i.e., signatures, dates/times, requested analyses)   Yes     4. Was the COC complete, i.e., signatures, dates/times, requested analyses   Yes     5. More Analysis, asola as pH which should be conducted in the field, i.e. 15 minus bold time, are not included in this discession.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Email:     | agiovngo@ensolum.com                                                           | Due Date:         | 02/07/24 | 17:00 (4 day TAT) |         |                  |                |
| 2. Does the number of samples per sampling site location match the COC 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? 5. Were all samples received within holding time? 5. Were all samples received within holding time? 7. Was a sample and Timer TAT1 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 7. Was a sample cooler received? 7. Was a sample cooler received? 7. Was a sample specified intact, i.e., not broken? 7. Was a sample received in good condition? 7. Was the sample specified intact, i.e., not broken? 7. Was the sample received on iged intact, i.e., not broken? 7. Was the sample received on iged intact, i.e., not broken? 7. Was the sample received on iged if liyes, the recorded temp is 4°C, i.e., 6°=2°C 7. Note: Thermal preservation is not required, if samples are received wit 15 minutes of sampling 7. If no visible ice, record the temperature. 8. Actual sample temperature. 9. Note Stamples collected in VOA Vials? 1.5. Are VOC samples collected in VOA Vials? 1.6. Is the head space less than 6.8 mm (pea sized or less)? 1.7. Was a trip blank (TB) included for VOC analyses? 1.8. Are non-VOC samples collected in the correct containers? 1.8. Are non-VOC samples collected in the correct containers? 1.9. Is the appropriate volume/weight or number of sample containers collected? 1.0. Were field sample labels filled out with the minimum information: 1.0. Sample Preservation 2.1. Does the COC or field labels indicate the samples were preserved? 2. Are sample(s) correctly preserved? 2. Are sample(s) correctly preserved? 3. No  1. Subcontract Laboratory 3. No  1. Subcontract Laboratory 4. No  2. Was a subcontract Laboratory specified by the client and if so who? 3. No  1. Subcontract Laboratory specified by the client and if so who? 3. Subcontract Laboratory specified by the client and if so who? 3. Subcontract Laboratory 4. Was a subcontract Laborat | Chain of   | Custody (COC)                                                                  |                   |          |                   |         |                  |                |
| 2. Does the number of samples per sampling site location match the COC 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? 5. Were all samples received within holding time? 5. Were all samples received within holding time? 7. Was a sample and Timer TAT1 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 7. Was a sample cooler received? 7. Was a sample cooler received? 7. Was a sample specified intact, i.e., not broken? 7. Was a sample received in good condition? 7. Was the sample specified intact, i.e., not broken? 7. Was the sample received on iged intact, i.e., not broken? 7. Was the sample received on iged intact, i.e., not broken? 7. Was the sample received on iged if liyes, the recorded temp is 4°C, i.e., 6°=2°C 7. Note: Thermal preservation is not required, if samples are received wit 15 minutes of sampling 7. If no visible ice, record the temperature. 8. Actual sample temperature. 9. Note Stamples collected in VOA Vials? 1.5. Are VOC samples collected in VOA Vials? 1.6. Is the head space less than 6.8 mm (pea sized or less)? 1.7. Was a trip blank (TB) included for VOC analyses? 1.8. Are non-VOC samples collected in the correct containers? 1.8. Are non-VOC samples collected in the correct containers? 1.9. Is the appropriate volume/weight or number of sample containers collected? 1.0. Were field sample labels filled out with the minimum information: 1.0. Sample Preservation 2.1. Does the COC or field labels indicate the samples were preserved? 2. Are sample(s) correctly preserved? 2. Are sample(s) correctly preserved? 3. No  1. Subcontract Laboratory 3. No  1. Subcontract Laboratory 4. No  2. Was a subcontract Laboratory specified by the client and if so who? 3. No  1. Subcontract Laboratory specified by the client and if so who? 3. Subcontract Laboratory specified by the client and if so who? 3. Subcontract Laboratory 4. Was a subcontract Laborat | 1. Does t  | he sample ID match the COC?                                                    |                   | Yes      |                   |         |                  |                |
| 3. Were samples dropped off by client or carrier? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? 4. Each standard Tarl, or Expedited TAT? 5. Dath can Coll condicate standard TAT, or Expedited TAT? 5. Wes a sample cooler received? 5. Were all sample about received? 7. Was a sample cooler received in good condition? 7. Was a sample cooler received in good condition? 7. Was a sample correctived intact, i.e., not broken? 8. If yes, was cooler received in good condition? 9. Was the sample coil received in good condition? 11. If yes, were custody/security seals present? 12. Was the sample received on ise? If yes, the received temp is 4°C, i.e., 6°22°C Note: Thermal preservation is not required, if samples are received will is minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C 5. Sample Container 14. Are angeous VOC samples present? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the parporpiate volume/weight or number of sample containers collected? 20. Were field sample labels filled out with the minimum information: 3. Sample Preserved. 21. Loss the COC or field labels indicate the samples were preserved? 22. Are samplely or correctly preserved? 23. Are samplely overectly preserved? 24. Is lab filteration required and/or requested for dissolved metals? 25. Does the sample have more than one phase, i.e., multiphase? 26. Loss the sample have more than one phase, i.e., multiphase? 27. If yes, does the COC specify which phase(s) is to be analyzed? 28. Are samples perquired to get sent to a subcontract laboratory? 29. Was a subcontract Laboratory specified by the client and if so who? 30. Subcontrac |            | •                                                                              | ch the COC        | Yes      |                   |         |                  |                |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses?  5. Were all samples received within holding time?  1. E., 15 minute hold time, are not included in this discussion.  Sample Turn Around Time (TAT)  6. Did the COC indicate standard TAT, or Expedited TAT?  7. Was a sample cooler received?  7. Was a sample cooler received?  7. Was a sample cooler received in good condition?  8. If yes, was cooler received in good condition?  9. Was the sample(s) received indicat, i.e., not broken?  10. Were custody/security seals present?  11. If yes, were custody/security seals intact?  12. Was the sample received on in fire the sample temps in the sample temperature.  13. If no visible ice, record the temperature. Actual sample temperature:  14. Are aqueous VOC samples present?  15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip blank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers?  19. Is the appropriate volume/weight or number of sample containers?  19. Sample Inconsume?  20. Were field sample labels filled out with the minimum information:  Sample Inconsume?  21. Does the COC or field labels indicate the samples were preserved?  22. Are sample(s) correctly preserved?  23. La sample to correct or than one phase, i.e., multiphase?  24. Is lab filteration required and/or requested for dissolved metals?  25. Does the sample have more than one phase, i.e., multiphase?  26. Does the sample have more than one phase, i.e., multiphase?  27. If yes, does the COC specify which phase(s) is to be analyzed?  28. Are samples created and or subcontract laboratory?  29. Was a subcontract Laboratory specified by the client and if so whe?  29. Was a subcontract Laboratory specified by the client and if so whe?  29. Was a subcontract Laboratory specified by the client and if so whe?  20. Was a subcontract Laboratory specified by the cli | 3. Were s  | amples dropped off by client or carrier?                                       |                   | Yes      | Carrier: C        | Courier |                  |                |
| Note: Analysis, such as pile which is disalession.   Comments/Resolution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4. Was th  | e COC complete, i.e., signatures, dates/times, reques                          | ted analyses?     | Yes      | _                 |         |                  |                |
| Sample Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? 7. Was a sample cooler received? 7. Was a sample cooler received in good condition? 8. If yes, was cooler received in good condition? 9. Was the sample (s) received infact, i.e., not broken? 10. Were custody/security seals present? 11. If yes, were custody/security seals present? 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received wit 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C  Sample Container 14. Are aqueous VOC samples present? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 19. Is the appropriate volume/weight or number of sample containers of yes 19. Is the appropriate volume/weight or number of sample containers collected? 20. Were field sample labels filled out with the minimum information: Sample ID? Date: Time Collected? Collectors name?  Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? No. Sample Preservation 22. Are sample(s) correctly preserved? No.  Multiphase Sample Matrix 26. Does the Somple Matrix 26. Does the Somple have more than one phase, i.e., multiphase? No.  Subcontract Laboratory 28. Are samples required to get sent to a subcontract laboratory? No.  Subcontract Laboratory 29. Was a subcontract laboratory specified by the client and if so who? No.  Subcontract Laboratory No.  No.  Subcontract Laboratory specified by the client and if so who? No.  Subcontract Laboratory specified by the client and if so who? No.  Subcontract Laboratory specified by the client and if so who? No.  Subcontract Laboratory No.  No.  Subcontract Laboratory specified by the client and if so who? No.  Subcontract Laboratory                                                                                                            | 5. Were a  | Note: Analysis, such as pH which should be conducted in                        |                   | Yes      |                   |         | <u>Comment</u> : | s/Resolution   |
| 6. Did the COC indicate standard TAT, or Expedited TAT?  Sample Cooler  7. Was a sample cooler received in good condition?  9. Was the sample (s) received in good condition?  9. Was the sample (s) received infact, i.e., not broken?  9. Was the sample received on ize? If yes, the recorded temp is 4°C, i.e., 6°22°C  10. Were custody/security seals intact?  12. Was the sample received on ize? If yes, the recorded temp is 4°C, i.e., 6°22°C  Not: Thermal preservation is not required, if samples are received wii 15 minutes of sampling  13. If no visible ice, record the temperature. Actual sample temperature: 4°C  Sample Container  14. Are aqueous VOC samples present?  15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip blank (TB) included for VOC analyses?  19. Is the appropriate volume/weight or number of sample containers Q yes  19. Is the appropriate volume/weight or number of sample containers collected?  19. Sample ID?  Date Time Collected?  Collectors name?  No  Sample Preservation  12. Does the COC or field labels indicate the samples were preserved?  No  Sample Infractory preserved?  No  Subcontract Laboratory  No  Subcontract Laboratory  No  Subcontract Laboratory specified by the client and if so who?  No  Subcontract Laboratory specified by the client and if so who?                                                                                                                                                                                 | Sample '   |                                                                                |                   |          |                   |         |                  |                |
| Sample Cooler received? 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? 9. Was the sample(s) received infact, i.e., not broken? 9. Was the sample(s) received infact, i.e., not broken? 10. Were custody/security seals present? 11. If yes, were custody/security seals intact? 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received wii 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C  Sample Container 14. Are aqueous VOC samples present? 15. Are VOC samples collected in VOA Vials? 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume/weight or number of sample containers collected? 20. Were field sample labels filled out with the minimum information:  Sample ID? Date: Time Collected? Collectors name?  No  Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? No  Sample Freservation 22. Are sample(s) correctly preserved? No  No  Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase? No  Subcontract Laboratory. 28. Are samples required to get sent to a subcontract laboratory? No  Subcontract Laboratory No  Subcontract Laboratory specified by the client and if so who? No  Subcontract Laboratory specified by the client and if so who? No  Subcontract Laboratory specified by the client and if so who? No  Subcontract Laboratory specified by the client and if so who? No  Subcontract Laboratory specified by the client and if so who? No  Subcontract Laboratory                                                                                                                                                                                                                                                                                      |            |                                                                                |                   | Yes      |                   |         |                  |                |
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| Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling  13. If no visible ice, record the temperature. Actual sample temperature: 4°C  Sample Container  14. Are aqueous VOC samples present?  15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  NA  17. Was a trip blank (TB) included for VOC analyses?  NA  18. Are non-VOC samples collected in the correct containers?  Yes  19. Is the appropriate volume/weight or number of sample containers collected?  Pield Label  20. Were field sample labels filled out with the minimum information:  Sample ID?  Occilectors name?  No  Collectors name?  No  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved?  Als lab filteration required and/or requested for dissolved metals?  No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase?  No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No  Subcontract Laboratory  No  Subcontract Laboratory specified by the client and if so who?  NA  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | •          | •                                                                              |                   |          |                   |         |                  |                |
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| 15. Are VOC samples collected in VOA Vials?  16. Is the head space less than 6-8 mm (pea sized or less)?  17. Was a trip blank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Were field sample labels filled out with the minimum information:  Sample ID?  Date/Time Collected?  Collectors name?  11. Does the COC or field labels indicate the samples were preserved?  12. Are sample(s) correctly preserved?  13. Is lab filteration required and/or requested for dissolved metals?  No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase?  17. If yes, does the COC specify which phase(s) is to be analyzed?  No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No  NA  Subcontract Laboratory specified by the client and if so who?  NA  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                                                                                |                   | 3.7      |                   |         |                  |                |
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| 17. Was a trip blank (TB) included for VOC analyses?  18. Are non-VOC samples collected in the correct containers?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Is the appropriate volume/weight or number of sample containers collected?  19. Were field sample labels filled out with the minimum information:  Sample ID?  Date/Time Collected?  Collectors name?  10. No  Sample Preservation  11. Does the COC or field labels indicate the samples were preserved?  12. Are sample(s) correctly preserved?  13. Is lab filteration required and/or requested for dissolved metals?  14. Is lab filteration required and/or requested for dissolved metals?  15. Does the sample have more than one phase, i.e., multiphase?  16. Does the sample have more than one phase, i.e., multiphase?  17. If yes, does the COC specify which phase(s) is to be analyzed?  18. Are samples required to get sent to a subcontract laboratory?  18. Are samples required to get sent to a subcontract laboratory?  18. As subcontract Laboratory specified by the client and if so who?  No  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                                                                                |                   |          |                   |         |                  |                |
| 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume/weight or number of sample containers collected?  Field Label 20. Were field sample labels filled out with the minimum information:  Sample ID? Date/Time Collected? Collectors name?  No  Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? No  Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase? No  Multiphase Sample have more than one phase, i.e., multiphase? No  Subcontract Laboratory 28. Are samples required to get sent to a subcontract laboratory? No  No Subcontract Laboratory specified by the client and if so who? No Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            | •                                                                              |                   |          |                   |         |                  |                |
| 19. Is the appropriate volume/weight or number of sample containers collected?  Field Label  20. Were field sample labels filled out with the minimum information: Sample ID? Date/Time Collected? Collectors name?  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase? No  Multiphase COC or specify which phase(s) is to be analyzed? No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory? No  No Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                                                                                |                   |          |                   |         |                  |                |
| Field Label  20. Were field sample labels filled out with the minimum information: Sample ID? Date/Time Collected? No Collectors name?  No  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? No Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase? No Tily yes, does the COC specify which phase(s) is to be analyzed? No Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory? No Subcontract Laboratory specified by the client and if so who? No Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |                                                                                |                   |          |                   |         |                  |                |
| 20. Were field sample labels filled out with the minimum information: Sample ID? Date/Time Collected? Collectors name? No  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved? No  22. Are sample(s) correctly preserved? No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase? No  71. If yes, does the COC specify which phase(s) is to be analyzed? No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory? No  No  Subcontract Laboratory specified by the client and if so who? No  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |                                                                                | ers collected?    | Yes      |                   |         |                  |                |
| Sample ID? Date/Time Collected? Collectors name? No  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved? No  22. Are sample(s) correctly preserved? No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase? No  71. If yes, does the COC specify which phase(s) is to be analyzed? No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory? No  No  Subcontract Laboratory No  No  Subcontract Laboratory specified by the client and if so who? No  Subcontract Laboratory specified by the client and if so who? No  Subcontract Laboratory Specified by the client and if so who? No  Subcontract Laboratory Specified by the client and if so who? No  Subcontract Laboratory Specified by the client and if so who? No  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | <del></del>                                                                    |                   |          |                   |         |                  |                |
| Date/Time Collected? Collectors name? No Sample Preservation  21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? No Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase? No 7. If yes, does the COC specify which phase(s) is to be analyzed? No Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory? No No Subcontract Laboratory specified by the client and if so who? NA Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            | -                                                                              | rmation:          | Ves      |                   |         |                  |                |
| Collectors name?  Sample Preservation  21. Does the COC or field labels indicate the samples were preserved?  No  22. Are sample(s) correctly preserved?  No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase?  No  7. If yes, does the COC specify which phase(s) is to be analyzed?  No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No  No  No  Subcontract Laboratory specified by the client and if so who?  No  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            | •                                                                              |                   |          |                   |         |                  |                |
| Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? 22. Are sample(s) correctly preserved? 23. As sample(s) correctly preserved? 24. Is lab filteration required and/or requested for dissolved metals?  25. Does the sample Matrix  26. Does the sample have more than one phase, i.e., multiphase?  27. If yes, does the COC specify which phase(s) is to be analyzed?  No  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No  No  No  Subcontract Laboratory specified by the client and if so who?  NA  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |                                                                                |                   |          |                   |         |                  |                |
| 22. Are sample(s) correctly preserved?  24. Is lab filteration required and/or requested for dissolved metals?  No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase?  No  27. If yes, does the COC specify which phase(s) is to be analyzed?  NA  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No  29. Was a subcontract laboratory specified by the client and if so who?  NA  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sample 1   | Preservation_                                                                  |                   |          |                   |         |                  |                |
| 24. Is lab filteration required and/or requested for dissolved metals?  No  Multiphase Sample Matrix  26. Does the sample have more than one phase, i.e., multiphase? No  27. If yes, does the COC specify which phase(s) is to be analyzed?  NA  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory? No  29. Was a subcontract laboratory specified by the client and if so who?  NA  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 21. Does   | the COC or field labels indicate the samples were pr                           | eserved?          | No       |                   |         |                  |                |
| Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase? No 27. If yes, does the COC specify which phase(s) is to be analyzed? NA  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory? No 29. Was a subcontract laboratory specified by the client and if so who? NA  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 22. Are s  | ample(s) correctly preserved?                                                  |                   | NA       |                   |         |                  |                |
| 26. Does the sample have more than one phase, i.e., multiphase?  No 27. If yes, does the COC specify which phase(s) is to be analyzed?  NA  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No 29. Was a subcontract laboratory specified by the client and if so who?  NA  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 24. Is lab | filteration required and/or requested for dissolved m                          | etals?            | No       |                   |         |                  |                |
| 26. Does the sample have more than one phase, i.e., multiphase?  No 27. If yes, does the COC specify which phase(s) is to be analyzed?  NA  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No 29. Was a subcontract laboratory specified by the client and if so who?  NA  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Multiph    | ase Sample Matrix                                                              |                   |          |                   |         |                  |                |
| 27. If yes, does the COC specify which phase(s) is to be analyzed?  NA  Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No  29. Was a subcontract laboratory specified by the client and if so who?  NA  Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                                                                                | se?               | No       |                   |         |                  |                |
| Subcontract Laboratory  28. Are samples required to get sent to a subcontract laboratory?  No  29. Was a subcontract laboratory specified by the client and if so who?  NA Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                                |                   |          |                   |         |                  |                |
| 28. Are samples required to get sent to a subcontract laboratory?  No  29. Was a subcontract laboratory specified by the client and if so who?  NA Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |                                                                                |                   | 1171     |                   |         |                  |                |
| 29. Was a subcontract laboratory specified by the client and if so who?  NA Subcontract Lab: NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                                                                                | 0                 | NT.      |                   |         |                  |                |
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| Client Instruction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 29. was a  | a subcontract laboratory specified by the client and if                        | so wno?           | NA       | Subcontract Lab   | ): NA   |                  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Client I   | <u>nstruction</u>                                                              |                   |          |                   |         |                  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                                                                                |                   |          |                   |         |                  |                |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                                                                                |                   |          |                   |         |                  |                |

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

#### **Analytical Report**

Matador Resources, LLC.

Project Name: Charlie Sweeney Fed TB

Work Order: E402025

Job Number: 23052-0001

Received: 2/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/9/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/9/24

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Charlie Sweeney Fed TB

Workorder: E402025

Date Received: 2/2/2024 6:10:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/2/2024 6:10:00AM, under the Project Name: Charlie Sweeney Fed TB.

The analytical test results summarized in this report with the Project Name: Charlie Sweeney Fed TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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#### **Sample Summary**

Matador Resources, LLC.Project Name:Charlie Sweeney Fed TBReported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo02/09/24 14:39

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| BG01 - 0'        | E402025-01A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG01 - 1'        | E402025-02A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG01 - 2'        | E402025-03A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG01 - 4'        | E402025-04A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG01 - 10'       | E402025-05A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG02 - 0'        | E402025-06A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG02 - 1'        | E402025-07A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG02 - 2'        | E402025-08A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG02 - 3'        | E402025-09A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG02 - 4'        | E402025-10A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG02 - 10'       | E402025-11A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG03 - 0'        | E402025-12A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG03 - 1'        | E402025-13A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG03 - 2'        | E402025-14A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG03 - 3'        | E402025-15A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG03 - 10'       | E402025-16A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG04 - 0'        | E402025-17A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG04 - 1'        | E402025-18A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG04 - 2'        | E402025-19A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG04 - 4'        | E402025-20A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG04 - 8'        | E402025-21A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG05 - 0'        | E402025-22A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG05 - 1'        | E402025-23A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG05 - 2'        | E402025-24A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG05 - 6'        | E402025-25A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG06 - 0'        | E402025-26A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG06 - 1'        | E402025-27A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |
| BG06 - 1.5'      | E402025-28A   | Soil   | 01/31/24 | 02/02/24 | Glass Jar, 2 oz. |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG01 - 0' E402025-01

|                           |                                                 | Reporting |          |          |                |       |  |
|---------------------------|-------------------------------------------------|-----------|----------|----------|----------------|-------|--|
| Analyte                   | Result                                          | Limit     | Dilution | Prepared | Analyzed       | Notes |  |
| Anions by EPA 300.0/9056A | ions by EPA 300.0/9056A mg/kg mg/kg Analyst: DT |           | : DT     |          | Batch: 2406020 |       |  |
| Chloride                  | ND                                              | 200       | 10       | 02/07/24 | 02/08/24       |       |  |
| Sulfate                   | 16900                                           | 200       | 10       | 02/07/24 | 02/08/24       |       |  |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG01 - 1'

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | DT       |          | Batch: 2406020 |
| Chloride                  | ND     | 200       | 10       | 02/07/24 | 02/08/24 |                |
| Sulfate                   | 17500  | 200       | 10       | 02/07/24 | 02/08/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG01 - 2'

|                           |        | Reporting |             |          |          |                |
|---------------------------|--------|-----------|-------------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution    | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: DT |          |          | Batch: 2406020 |
| Ch1::4-                   | ND     | 200       | 10          | 02/07/24 | 02/08/24 |                |
| Chloride                  | ND     | 200       | 10          | 02/07/21 |          |                |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG01 - 4'

|                                              |        | Reporting |          |          |                |       |
|----------------------------------------------|--------|-----------|----------|----------|----------------|-------|
| Analyte                                      | Result | Limit     | Dilution | Prepared | Analyzed       | Notes |
| Anions by EPA 300.0/9056A mg/kg mg/kg Analys |        | Analyst:  | DT       |          | Batch: 2406020 |       |
| Chloride                                     | ND     | 200       | 10       | 02/07/24 | 02/08/24       |       |
| Sulfate                                      | 17200  | 200       | 10       | 02/07/24 | 02/08/24       |       |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG01 - 10' E402025-05

|                           |        | Reporting |             |          |          |                |
|---------------------------|--------|-----------|-------------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution    | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: DT |          |          | Batch: 2406020 |
| Chloride                  | ND     | 200       | 10          | 02/07/24 | 02/08/24 |                |
| Sulfate                   | 17200  | 200       | 10          | 02/07/24 | 02/08/24 |                |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG02 - 0'

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | DT       |          | Batch: 2406020 |
| Chloride                  | 60.3   | 40.0      | 2        | 02/07/24 | 02/08/24 |                |
| Sulfate                   | 275    | 40.0      | 2        | 02/07/24 | 02/08/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG02 - 1'

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | DT       |          | Batch: 2406020 |
| Chloride                  | 3920   | 1000      | 50       | 02/07/24 | 02/08/24 |                |
| Sulfate                   | 15000  | 1000      | 50       | 02/07/24 | 02/08/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG02 - 2'

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | : DT     |          | Batch: 2406020 |
| Chloride                  | 4260   | 1000      | 50       | 02/07/24 | 02/08/24 |                |
| Sulfate                   | 12600  | 1000      | 50       | 02/07/24 | 02/08/24 |                |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG02 - 3'

|                           |        | Reporting |          |          |          |                |  |
|---------------------------|--------|-----------|----------|----------|----------|----------------|--|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |  |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | DT       |          | Batch: 2406020 |  |
| Chloride                  | 4050   | 1000      | 50       | 02/07/24 | 02/08/24 |                |  |
|                           |        |           |          |          |          |                |  |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG02 - 4'

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | DT       |          | Batch: 2406020 |
| Chloride                  | ND     | 1000      | 50       | 02/07/24 | 02/08/24 |                |
| Sulfate                   | 19200  | 1000      | 50       | 02/07/24 | 02/08/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG02 - 10'

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | DT       |          | Batch: 2406020 |
| Chloride                  | ND     | 1000      | 50       | 02/07/24 | 02/08/24 |                |
| Sulfate                   | 20700  | 1000      | 50       | 02/07/24 | 02/08/24 |                |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG03 - 0'

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | DT       |          | Batch: 2406020 |
| Chloride                  | 11800  | 1000      | 50       | 02/07/24 | 02/08/24 |                |
| Sulfate                   | 20500  | 1000      | 50       | 02/07/24 | 02/08/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG03 - 1'

|                           |        | Reporting |             |          |          |                |
|---------------------------|--------|-----------|-------------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution    | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: DT |          |          | Batch: 2406020 |
| Chloride                  | ND     | 400       | 20          | 02/07/24 | 02/08/24 |                |
| Sulfate                   | 1770   | 400       | 20          | 02/07/24 | 02/08/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG03 - 2'

| E402025-14               |        |           |          |          |          |                |  |
|--------------------------|--------|-----------|----------|----------|----------|----------------|--|
|                          |        | Reporting |          |          |          |                |  |
| Analyte                  | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |  |
| nions by EPA 300 0/9056A | mg/kg  | mg/kg     | Analyst: | DT       |          | Batch: 2406020 |  |

| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analys | t: DT    |          | Batch: 2406020 |
|---------------------------|-------|-------|--------|----------|----------|----------------|
| Chloride                  | ND    | 400   | 20     | 02/07/24 | 02/08/24 |                |
| Sulfate                   | 2460  | 400   | 20     | 02/07/24 | 02/08/24 |                |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG03 - 3'

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst  | DT       |          | Batch: 2406020 |
| Chloride                  | ND     | 400       | 20       | 02/07/24 | 02/08/24 |                |
| Sulfate                   | 1790   | 400       | 20       | 02/07/24 | 02/08/24 |                |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG03 - 10' E402025-16

|                           |        | Reporting |             |          |          |                |
|---------------------------|--------|-----------|-------------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution    | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: DT |          |          | Batch: 2406020 |
| Chloride                  | ND     | 400       | 20          | 02/07/24 | 02/08/24 |                |
| Sulfate                   | 2160   | 400       | 20          | 02/07/24 | 02/08/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG04 - 0'

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | DT       |          | Batch: 2406020 |
| Chloride                  | ND     | 200       | 10       | 02/07/24 | 02/08/24 |                |
| Sulfate                   | 16900  | 200       | 10       | 02/07/24 | 02/08/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG04 - 1'

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | IY       |          | Batch: 2406020 |
| Chloride                  | ND     | 400       | 20       | 02/07/24 | 02/08/24 |                |
| Sulfate                   | 2400   | 400       | 20       | 02/07/24 | 02/08/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG04 - 2'

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | DT       |          | Batch: 2406020 |
| Chloride                  | ND     | 400       | 20       | 02/07/24 | 02/08/24 |                |
| Sulfate                   | 2270   | 400       | 20       | 02/07/24 | 02/08/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG04 - 4'

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | DT       |          | Batch: 2406020 |
| Chloride                  | ND     | 400       | 20       | 02/07/24 | 02/08/24 |                |
| Sulfate                   | 2370   | 400       | 20       | 02/07/24 | 02/08/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG04 - 8'

|                           |        | Reporting |             |          |          |                |
|---------------------------|--------|-----------|-------------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution    | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: DT |          |          | Batch: 2406019 |
| Chloride                  | ND     | 100       | 5           | 02/05/24 | 02/06/24 |                |
| Sulfate                   | 17600  | 100       | 5           | 02/05/24 | 02/06/24 |                |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG05 - 0'

|                           |        | Reporting |             |          |          |                |
|---------------------------|--------|-----------|-------------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution    | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: DT |          |          | Batch: 2406019 |
| Chloride                  | 395    | 200       | 10          | 02/05/24 | 02/06/24 |                |
| Sulfate                   | 18100  | 200       | 10          | 02/05/24 | 02/06/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG05 - 1'

|                           |        | Reporting |             |          |          |                |  |
|---------------------------|--------|-----------|-------------|----------|----------|----------------|--|
| Analyte                   | Result | Limit     | Dilution    | Prepared | Analyzed | Notes          |  |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: DT |          |          | Batch: 2406019 |  |
| Chloride                  | 592    | 200       | 10          | 02/05/24 | 02/06/24 |                |  |
| Sulfate                   | 19800  | 200       | 10          | 02/05/24 | 02/06/24 |                |  |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG05 - 2'

E402025-24

|                           |        | Reporting |          |          |          |                |  |
|---------------------------|--------|-----------|----------|----------|----------|----------------|--|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |  |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst  | DT       |          | Batch: 2406019 |  |
| Chloride                  | 244    | 200       | 10       | 02/05/24 | 02/06/24 |                |  |
| Sulfate                   | 20000  | 200       | 10       | 02/05/24 | 02/06/24 |                |  |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG05 - 6' E402025-25

|                                    |             | Reporting    |          |             |          |                |  |
|------------------------------------|-------------|--------------|----------|-------------|----------|----------------|--|
| Analyte                            | Result      | Limit        | Dilution | Prepared    | Analyzed | Notes          |  |
|                                    |             |              |          |             |          |                |  |
| Anions by EPA 300.0/9056A          | mg/kg       | mg/kg        | Analyst  | : DT        |          | Batch: 2406019 |  |
| Anions by EPA 300.0/9056A Chloride | mg/kg<br>ND | mg/kg<br>200 | Analyst  | DT 02/05/24 | 02/06/24 | Batch: 2406019 |  |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG06 - 0' E402025-26

| Analyte                   | Result | Reporting<br>Limit | Dilution | Prepared | Analyzed | Notes          |  |
|---------------------------|--------|--------------------|----------|----------|----------|----------------|--|
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg              | Analyst  | : DT     |          | Batch: 2406019 |  |
| Chloride                  | 5470   | 400                | 20       | 02/05/24 | 02/06/24 |                |  |
| Sulfate                   | 26100  | 400                | 20       | 02/05/24 | 02/06/24 |                |  |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG06 - 1'

E402025-27

|                           |        | Reporting |          |          |          |                |  |
|---------------------------|--------|-----------|----------|----------|----------|----------------|--|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |  |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst  | DT       |          | Batch: 2406019 |  |
| Chloride                  | 739    | 200       | 10       | 02/05/24 | 02/06/24 |                |  |
| Sulfate                   | 19000  | 200       | 10       | 02/05/24 | 02/06/24 |                |  |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                    |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:          |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

BG06 - 1.5'

E402025-28

|                           |        | Reporting |          |          |          |                |
|---------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | DT       |          | Batch: 2406019 |
| Chloride                  | 356    | 200       | 10       | 02/05/24 | 02/06/24 |                |
| Sulfate                   | 18200  | 200       | 10       | 02/05/24 | 02/06/24 |                |

Chloride

## **QC Summary Data**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB | Reported:          |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | _                  |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

| Anions by EPA 300.0/9056A |                 |                             |                         |                           |          |                    |             |                   | Analyst: DT    |
|---------------------------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|-------------|-------------------|----------------|
| Analyte                   | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg | Rec<br>% | Rec<br>Limits<br>% | RPD<br>%    | RPD<br>Limit<br>% | Notes          |
| Blank (2406019-BLK1)      |                 |                             |                         |                           |          |                    | Prepared: 0 | 2/05/24 Anal      | yzed: 02/06/24 |
| Chloride                  | ND              | 20.0                        |                         |                           |          |                    |             |                   |                |
| Sulfate                   | ND              | 20.0                        |                         |                           |          |                    |             |                   |                |
| LCS (2406019-BS1)         |                 |                             |                         |                           |          |                    | Prepared: 0 | 2/05/24 Anal      | yzed: 02/06/24 |
| Chloride                  | 255             | 20.0                        | 250                     |                           | 102      | 90-110             |             |                   |                |
| Sulfate                   | 245             | 20.0                        | 250                     |                           | 98.0     | 90-110             |             |                   |                |
| LCS Dup (2406019-BSD1)    |                 |                             |                         |                           |          |                    | Prepared: 0 | 2/05/24 Anal      | yzed: 02/06/24 |

250

250

20.0

20.0

102

98.2

90-110

90-110

0.300

0.221

20

20

255 245



## **QC Summary Data**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB | Reported:          |
|------------------------------|------------------|------------------------|--------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             |                    |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 2/9/2024 2:39:09PM |

| Anions        | by EPA 3 | 00.0/9056 <i>A</i> | <b>\</b> |     |     |     | Analyst: DT |  |
|---------------|----------|--------------------|----------|-----|-----|-----|-------------|--|
| <br>Reporting | Spike    | Source             |          | Rec | DDD | RPD |             |  |

| Analyte                | Result | Limit | Level | Result | Rec | Limits | RPD          | Limit        |                |
|------------------------|--------|-------|-------|--------|-----|--------|--------------|--------------|----------------|
|                        | mg/kg  | mg/kg | mg/kg | mg/kg  | %   | %      | %            | %            | Notes          |
| Blank (2406020-BLK1)   |        |       |       |        |     |        | Prepared: 02 | 2/07/24 Anal | yzed: 02/08/24 |
| Chloride               | ND     | 20.0  |       |        |     |        |              |              |                |
| Sulfate                | ND     | 20.0  |       |        |     |        |              |              |                |
| LCS (2406020-BS1)      |        |       |       |        |     |        | Prepared: 02 | 2/07/24 Anal | yzed: 02/08/24 |
| Chloride               | 260    | 20.0  | 250   |        | 104 | 90-110 |              |              |                |
| Sulfate                | 252    | 20.0  | 250   |        | 101 | 90-110 |              |              |                |
| LCS Dup (2406020-BSD1) |        |       |       |        |     |        | Prepared: 02 | 2/07/24 Anal | yzed: 02/08/24 |
| Chloride               | 261    | 20.0  | 250   |        | 104 | 90-110 | 0.183        | 20           |                |
| Sulfate                | 252    | 20.0  | 250   |        | 101 | 90-110 | 0.0412       | 20           |                |

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



## **Definitions and Notes**

| l | Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                |
|---|------------------------------|------------------|------------------------|----------------|
| l | 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23052-0001             | Reported:      |
| l | Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 02/09/24 14:39 |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

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| Client:         | Matador Proc          | luction C      | Company              |                    |                | Bill To                                                         |               |        | V                          | L            | ab U        | se On       | e Only TAT EPA Program |          |      |        |        |       |       | rogram         |                   |            |  |
|-----------------|-----------------------|----------------|----------------------|--------------------|----------------|-----------------------------------------------------------------|---------------|--------|----------------------------|--------------|-------------|-------------|------------------------|----------|------|--------|--------|-------|-------|----------------|-------------------|------------|--|
|                 | Charlie Swee          |                |                      |                    | 57.000         | ntion: Matador Production                                       | Company       | Lal    | WO!                        | #            | _           | Job         | Num                    | ber      | - 1  | 1D     | 2D     | 3D    | Sta   | andard         | CWA               | SDWA       |  |
|                 | Manager: As           |                |                      |                    |                | ess: on file                                                    |               | E      | 401                        | 0.2          | >_          | 239         | 3052.000               |          |      |        |        |       |       | X              |                   |            |  |
| Address         | : 3122 Natio          | nal Parks      | Hwy                  |                    | City,          | State, Zip:                                                     |               |        |                            |              |             | Analy       | sis a                  | nd Me    | tho  | d      |        |       |       |                |                   | RCRA       |  |
| City, Sta       | te, Zip: Carls        | bad NM,        | 88220                |                    | Phor           | ne: (337)319-8398                                               |               | -      | by                         |              |             |             | 4                      |          |      |        |        |       |       |                |                   |            |  |
|                 | 575-988-005           |                |                      |                    | Emai           | l: clinton.talley@matadorr                                      | esources.cor  | n      | ORC                        |              |             |             | 50                     |          |      |        |        |       |       |                | State             |            |  |
|                 | igiovengo@e           | nsolum.        | com                  |                    |                |                                                                 |               |        | RO/                        | 77           | 0           | 0           | 0.0                    |          |      | NZ     |        | ×     |       | NM CO UT AZ TX |                   |            |  |
| Report of       | due by:               |                |                      |                    |                |                                                                 |               |        | 10/0                       | v 80         | 826         | 601         | e 30                   | H.       |      |        |        |       |       | ×              |                   |            |  |
| Time<br>Sampled | Date Sampled          | Matrix         | No. of<br>Containers | Sample ID          |                |                                                                 | Lab<br>Number |        | TPH GRO/DRO/ORO by<br>8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 + 504   | тсеа трн |      | BGDOC  |        | GDOC  |       |                | Remarks           |            |  |
| 8:23            | 1/31/2024             | Soil           | 1                    |                    |                | 3G01 - 0'                                                       | 1             |        |                            |              |             |             | х                      |          |      |        |        |       |       | J-flag - Ple   | ease run for Sulp | hates also |  |
| 8:25            | 1/31/2024             | Soil           | 1                    |                    |                | 3G01 - 1'                                                       | 2             |        |                            |              |             |             | х                      |          |      |        |        |       |       | J-flag - Ple   | ease run for Sulp | hates also |  |
| 8:27            | 1/31/2024             | Soil           | 1                    |                    |                | 3G01 - 2'                                                       | 3             |        |                            |              |             |             | х                      |          |      |        |        |       |       | J-flag - Ple   | ease run for Sulp | hates also |  |
| 8:36            | 1/31/2024             | Soil           | 1                    |                    |                | 3G01 - 4'                                                       | 4             |        |                            |              |             |             | х                      |          |      |        |        |       |       | J-flag - Ple   | ease run for Sulp | hates also |  |
| 8:53            | 1/31/2024             | Soil           | 1                    |                    | В              | G01 - 10'                                                       | 5             |        |                            |              |             |             | x                      |          |      |        |        |       |       | J flag - Ple   | ease run for Sulp | hates also |  |
| 9:03            | 1/31/2024             | Soil           | 1                    |                    |                | 3G02 - 0'                                                       | 6             |        |                            |              |             |             | х                      |          |      |        |        |       |       | J-flag - Ple   | ease run for Sulp | hates also |  |
| 9:06            | 1/31/2024             | Soil           | 1                    |                    | -              | 3G02 - 1'                                                       | 7             |        |                            |              |             |             | х                      |          | П    |        |        |       |       | J-flag - Ple   | ase run for Sulp  | hates also |  |
| 9:08            | 1/31/2024             | Soil           | 1                    |                    | -              | 3G02 - 2'                                                       | 8             |        |                            |              |             |             | х                      |          |      |        |        |       |       | J-flag - Ple   | ase run for Sulp  | hates also |  |
| 9:11            | 1/31/2024             | Soil           | 1                    |                    | T d            | 3G02 - 3'                                                       | 9             |        |                            |              |             |             | х                      |          |      |        |        |       |       | J-flag - Ple   | ase run for Sulp  | hates also |  |
| 9:15            | 1/31/2024             | Soil           | 1                    |                    | -              | 3G02 - 4'                                                       | 10            |        |                            |              |             |             | х                      |          |      |        |        |       |       | J-flag - Ple   | ase run for Sulp  | hates also |  |
| Addition        | nal Instruction       | ns: Plea       | ase CC: cl           | ourton@enso        | lum.com, a     | ngiovengo@ensolum.com,                                          | chamilton@    | enso   | lum.c                      | om,          | ehat        | t@er        | nsolu                  | ım.co    | m, i | estre  | ella@  | enso  | olum. | .com           |                   |            |  |
|                 |                       |                |                      | ty of this sample. |                | t tampering with or intentionally misl  Sampled by: Cole Burtor |               | le loc | ation,                     |              |             | 100         |                        |          | - A  |        |        |       |       | on ice the day |                   | led or     |  |
| Relinquist      | ed by: (Signatur      | el             | Date                 | Time               | -              | Received by: (Signature)                                        | 2-1-2         | 4      | Time<br>10                 | )4-          | 7           | Rece        | eived                  | d on ic  | e:   |        | b Us   | se On | lly   |                |                   | 2.0        |  |
| Milio           |                       | 42             | Date                 | 1-24 Time          | 630            | Received by: (Senature)                                         | 7//           | 124    | Time                       | 163          | 0           | T1          |                        |          |      | T2     |        |       |       | T3             |                   |            |  |
| Relinquish      | ed by: (Signatur      | e              | Date                 | 11/24 2            | 348            | Received by (Signature)                                         | Date          | 24     | Time                       | فام          |             | AVG         | Ten                    | np °C_   |      | 4      |        |       |       |                |                   |            |  |
| Sample Ma       | trix S - Soil, Sd - S | olid, Sg - Slu | idge, A - Aqu        |                    |                | 1                                                               | Containe      | _      |                            | glass        | , p - p     | oly/p       | lasti                  | c, ag -  | amb  | er gla | ass, v | - VO  | 4     |                |                   |            |  |
| Note: Sam       | ples are discard      | ed 30 days     | s after resu         | ts are reported    | unless other a | arrangements are made. Hazardo                                  |               |        |                            |              |             |             |                        |          |      |        |        |       |       | rt for the a   | nalysis of t      | he above   |  |
|                 |                       |                |                      |                    |                | his COC. The liability of the labora                            |               |        |                            |              |             |             |                        |          |      |        |        |       |       |                |                   |            |  |



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| Client:         | Matador Pro            | duction (      | Company              |                                             | Bill To                                                                                           |                  |         |                            | L            | ab U        | se On       | ly              |          |          | TAT EPA Prog |        |       |      |                                        |                   |            |
|-----------------|------------------------|----------------|----------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------|------------------|---------|----------------------------|--------------|-------------|-------------|-----------------|----------|----------|--------------|--------|-------|------|----------------------------------------|-------------------|------------|
|                 | Charlie Swe            |                |                      |                                             | Attention: Matador Production                                                                     | Company          | Lab     | WO#                        | # #          |             | Job I       |                 |          |          | 1D           | 2D     | 3D    | St   | andard                                 | CWA               | SDWA       |
| Project         | Manager: As            | hley Gio       | vengo                |                                             | Address: on file                                                                                  |                  | E       | 1020                       | 225          |             | 23          | 05              | 2.60     | 10       |              |        |       |      | X                                      | 4 2               |            |
| Address         | : 3122 Natio           | nal Parks      | s Hwy                |                                             | City, State, Zip:                                                                                 |                  |         |                            |              |             |             |                 | nd Me    | _        | d            |        |       |      |                                        |                   | RCRA       |
| City, Sta       | te, Zip: Carls         | bad NM         | , 88220              |                                             | Phone: (337)319-8398                                                                              |                  |         | þ                          |              |             |             |                 |          |          | 1            |        | T     |      |                                        |                   |            |
| Phone:          | 575-988-005            | 5              |                      |                                             | Email: clinton.talley@matadorre                                                                   | sources.com      | 1       | 80                         |              |             |             | 504             |          |          |              |        |       |      |                                        | State             |            |
| Email: a        | giovengo@e             | nsolum.        | com                  |                                             |                                                                                                   |                  | 1       | 0/0                        |              | 12          |             | + 0.            |          |          | N            |        | 1.76  |      | NM CO                                  | UT AZ             | TX         |
| Report o        | due by:                |                |                      |                                             |                                                                                                   |                  |         | NO/OR                      | 802          | 3260        | 010         | 300             | I        |          |              |        | ×     |      | ×                                      |                   |            |
| Time<br>Sampled | Date Sampled           | Matrix         | No. of<br>Containers | Sample ID                                   |                                                                                                   | Lab<br>Number    |         | TPH GRO/DRO/ORO by<br>8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0+ | тсед трн |          | BGDOC        |        | GDOC  |      |                                        | Remarks           |            |
| 9:45            | 1/31/2024              | Soil           | 1                    |                                             | BG02 - 10'                                                                                        | -11-             |         | 1                          | ш            |             | -           | х               |          |          | ш.           |        |       |      | J-flag - P                             | ease run for Sulp | hates also |
| 10:10           | 1/31/2024              | Soil           | 1                    |                                             | BG03 - 0'                                                                                         | 12               |         |                            |              |             |             | х               |          |          |              |        |       |      | J-flag - Pl                            | ease run for Sulp | hates also |
| 10:22           | 1/31/2024              | Soil           | 1                    |                                             | BG03 - 1'                                                                                         | 13               |         |                            |              |             |             | х               |          |          |              |        |       |      | J-flag - Pl                            | ease run for Sul; | hates also |
| 10:24           | 1/31/2024              | Soil           | 1                    |                                             | BG03 - 2'                                                                                         | 14               |         |                            |              |             |             | х               |          |          |              |        |       |      | J-flag - Pl                            | ease run for Sulp | hates also |
| 10:27           | 1/31/2024              | Soil           | 1                    |                                             | BG03 - 3'                                                                                         | 15               |         |                            |              |             | 7           | х               |          |          |              |        |       |      | J-flag - Please run for Sulphates also |                   | hates also |
| 10:56           | 1/31/2024              | Soil           | 1                    |                                             | BG03 - 10'                                                                                        | 16               |         |                            |              |             |             | х               |          |          |              |        |       |      | J-flag - Please run for Sulphates also |                   | hates also |
| 11:06           | 1/31/2024              | Soil           | 1                    |                                             | BG04 - 0'                                                                                         | 17               |         |                            |              |             |             | х               |          |          |              |        |       |      | J-flag - Pl                            | ease run for Sulp | hates also |
| 11:07           | 1/31/2024              | Soil           | 1                    |                                             | BG04 - 1'                                                                                         | 18               |         |                            |              |             |             | х               |          |          |              |        |       |      | J-flag - Pl                            | ease run for Sulp | hates also |
| 11:09           | 1/31/2024              | Soil           | 1                    |                                             | BG04 - 2'                                                                                         | 19               |         |                            |              |             |             | х               |          |          |              |        |       |      | J-flag - Pl                            | ease run for Sulp | hates also |
| 11:15           | 1/31/2024              | Soil           | 1                    |                                             | BG04 - 4'                                                                                         | 20               |         |                            |              |             |             | х               |          |          |              |        |       |      | J-flag - Pl                            | ease run for Sulp | hates also |
| Addition        | al Instructio          | ns: Plea       | ase CC: cl           | ourton@ensol                                | um.com, agiovengo@ensolum.com, c                                                                  | hamilton@e       | enso    | lum.c                      | om,          | ehaf        | t@en        | solu            | ım.co    | m, i     | estre        | ella@  | ens   | olun | n.com                                  |                   |            |
|                 |                        |                |                      | ty of this sample. I<br>y be grounds for le | am aware that tampering with or intentionally misla<br>gal action. <u>Sampled by:</u> Cole Burton | belling the samp | le loca | ation,                     |              |             |             |                 |          |          |              |        |       |      | on ice the day<br>an 6 °C on subs      |                   | led or     |
| Relinguish      | ed by: (Signatur       | t              | Date 2 -             | 1-24 Time                                   | Received by: (Signature) 1                                                                        | 1-1-8            | 14      | Time                       | 047          | 7           | Rece        | ivec            | on ic    | e:       |              | b Us   | se Or | nly  |                                        |                   |            |
|                 | ed by: (Signatur       | re)            | Date<br>2-           | 1-24 10                                     | Received by: (Signature)                                                                          | Date 7/1/2       | 24      | Time                       | 63           | 0           | T1          |                 |          |          | T2           |        |       |      | T3                                     |                   |            |
| Relinquish      | ed by://Signatur       | er             | Date                 | 1/24 Time                                   | Received by: (Signature)                                                                          | Date O           | ay      | Time                       | 610          |             | AVG         | Ten             | np °C    | <u> </u> |              |        |       |      |                                        |                   |            |
| Sample Ma       | trix: S - Soil, Sd - S | olid, Sg - Slu | idge, A - Aqu        |                                             | 11000                                                                                             | Containe         | r Tvp   |                            |              |             |             |                 |          | amb      | er gla       | ass. v | - VO  | A    |                                        |                   |            |
|                 |                        |                |                      |                                             | nless other arrangements are made. Hazardon                                                       |                  |         |                            |              |             |             |                 |          |          |              |        |       |      | ort for the                            | inalysis of t     | he above   |
|                 |                        |                |                      |                                             | ratory with this COC. The liability of the laborat                                                |                  |         |                            |              |             |             |                 |          | anest.   |              |        |       |      |                                        | 7.00              |            |



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| Project: Char<br>Project Mana<br>Address: 312<br>City, State, Zij<br>Phone: 575-9<br>mail: agiove<br>Report due by<br>Time<br>Sampled | ager: Ash<br>22 Nation<br>ip: Carlst<br>-988-0055<br>engo@er | ley Giov<br>al Parks<br>ad NM, | engo<br>Hwy<br>88220 |                   | Addr<br>City,<br>Phon | ntion: Matador Produc<br>ress: on file<br>State, Zip:<br>ne: (337)319-8398<br>il: clinton.talley@matad |                                            | La<br>E  | WO                         | 202          |             | Job No<br>230<br>Analysi | 62               | -000     |           | 2D    | 3D          | Sta    | andard<br>x                            | CWA              | SDWA       |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------|----------------------|-------------------|-----------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------|----------|----------------------------|--------------|-------------|--------------------------|------------------|----------|-----------|-------|-------------|--------|----------------------------------------|------------------|------------|
| Address: 312<br>City, State, Zin<br>Phone: 575-9<br>Email: agiove<br>Report due by                                                    | .22 Nation<br>Lip: Carlsh<br>-988-0055<br>Lengo@er<br>by:    | al Parks<br>ad NM,<br>solum.c  | Hwy<br>88220<br>om   |                   | City,<br>Phon         | State, Zip:<br>ne: (337)319-8398                                                                       | dorresources.cc                            | E        |                            | 202          |             | _                        | _                |          | \ [       |       |             |        | Х                                      |                  |            |
| City, State, Zip Phone: 575-5 Email: agiove Report due by Time                                                                        | Zip: Carlst<br>-988-0055<br>vengo@er<br>by:                  | solum.c                        | 88220<br>om          |                   | Phon                  | ne: (337)319-8398                                                                                      | dorresources.co                            | -        |                            |              |             | Analysi                  | san              | d Math   | - 1       |       |             |        |                                        |                  |            |
| Phone: 575-9<br>Email: agiove<br>Report due by                                                                                        | -988-0055<br>vengo@er<br>by:<br>e Sampled                    | solum.c                        | om                   |                   |                       |                                                                                                        | dorresources.co                            |          |                            |              |             | 1                        | 5 411            | u Meni   | oa        |       |             |        |                                        |                  | RCRA       |
| Email: agiove                                                                                                                         | vengo@er<br>by:<br>e Sampled                                 | solum.c                        |                      |                   | Emai                  | il: clinton.talley@matad                                                                               | dorresources.co                            | _        | þ                          |              |             |                          | 4                |          |           |       |             |        |                                        |                  |            |
| Report due by                                                                                                                         | by:<br>e Sampled                                             |                                |                      |                   |                       |                                                                                                        | Email: clinton.talley@matadorresources.com |          |                            |              |             |                          | . S04            |          |           | 1     |             |        |                                        | State            |            |
| Time Date                                                                                                                             | e Sampled                                                    | Matrix                         |                      |                   |                       |                                                                                                        |                                            |          | RO/                        | -            | 0           |                          | 0.0              |          | Z         |       | _           |        | NM CO                                  | UT AZ            | TX         |
| Date                                                                                                                                  |                                                              | Matrix                         |                      |                   |                       |                                                                                                        |                                            |          | 0/0                        | / 802        | 826         | 6010                     | 300              | H        |           |       | ×           |        | ×                                      |                  |            |
|                                                                                                                                       | 31/2024                                                      |                                | No. of<br>Containers | Sample ID         |                       |                                                                                                        | Lab<br>Numb                                | er       | TPH GRO/DRO/ORO by<br>8015 | BTEX by 8021 | VOC by 8260 | Metals 6010              | Chloride 300.0 + | тсео трн | BGDOC     |       | GDOC        |        |                                        | Remarks          |            |
| 11:31 1/33                                                                                                                            |                                                              | Soil                           | 1                    |                   | E                     | BG04 - 8'                                                                                              | 21                                         |          |                            |              |             |                          | х                |          |           |       |             |        | J-flag - Ple                           | ase run for Sulp | hates also |
| 12:50 1/31                                                                                                                            | 31/2024                                                      | Soil                           | 1                    |                   | [                     | BG05 - 0'                                                                                              | 20                                         |          |                            |              |             |                          | х                |          |           |       |             |        | J-flag - Please run for Sulphates also |                  |            |
| 12:53 1/32                                                                                                                            | 31/2024                                                      | Soil                           | 1                    |                   | ĺ                     | BG05 - 1'                                                                                              | 23                                         |          |                            |              |             |                          | х                |          |           |       |             |        | J-flag - Ple                           | ase run for Sulp | hates also |
| 12:55 1/31                                                                                                                            | 31/2024                                                      | Soil                           | 1                    |                   | I                     | BG05 - 2'                                                                                              | 24                                         |          |                            |              |             |                          | х                |          |           |       |             |        | J-flag - Ple                           | ase run for Sulp | hates also |
| 13:10 1/31                                                                                                                            | 31/2024                                                      | Soil                           | 1                    |                   | [                     | BG05 - 6'                                                                                              | 25                                         |          |                            |              |             |                          | х                |          |           |       |             |        | J-flag - Please run for Sulphates also |                  |            |
| 13:17 1/31                                                                                                                            | 31/2024                                                      | Soil                           | 1                    |                   |                       | BG06 - 0'                                                                                              | 26                                         |          |                            |              |             |                          | х                |          |           |       |             |        | I-flag - Please run for Sulphates also |                  | hates also |
| 13:39 1/31                                                                                                                            | 31/2024                                                      | Soil                           | 1                    |                   | E                     | BG06 - 1'                                                                                              | 27                                         |          |                            |              |             |                          | х                |          |           |       |             |        | J-flag - Ple                           | ase run for Sulp | hates also |
| 13:45 1/31                                                                                                                            | 31/2024                                                      | Soil                           | 1                    |                   | В                     | G06 - 1.5'                                                                                             | 28                                         |          |                            |              |             |                          | x                |          |           |       |             |        | J-flag - Pie                           | ase run for Sulp | hates also |
|                                                                                                                                       |                                                              |                                |                      |                   |                       |                                                                                                        |                                            |          |                            |              |             |                          |                  | 1        | _         | 1     |             |        |                                        |                  |            |
| A 1 1995                                                                                                                              |                                                              | . DI                           | - 66 1               |                   | feet 2 of set 5       |                                                                                                        | 1 10                                       |          |                            |              |             |                          |                  |          |           |       |             |        |                                        |                  |            |
| Additional ins                                                                                                                        | nstruction                                                   | s: Plea                        | se CC: cr            | ourton@enso       | oium.com, a           | agiovengo@ensolum.co                                                                                   | m, chamiltone                              | enso     | ium.c                      | com,         | enar        | t@ens                    | olu              | m.com    | , iest    | rella | @ens        | olum   | .com                                   |                  |            |
| I, (field sampler), a                                                                                                                 |                                                              |                                |                      |                   |                       | at tampering with or intentionally  Sampled by: Cole B                                                 |                                            | nple lo  | ation,                     |              |             |                          |                  |          |           |       |             |        | on ice the day t                       |                  | led or     |
| Relinquished by:                                                                                                                      |                                                              | )                              | Date 2               | Time              | 7:30                  | Received by: (Signature)                                                                               | 1 Date 2-1-                                | 14       | Time                       | oyr          | 7           | Receiv                   | ved              | on ice:  |           | Lab L | Jse Or<br>N | nly    | W                                      |                  |            |
| Relinquished by:                                                                                                                      | 16                                                           | 1                              | Date 2               | 124 Time          | 630                   | Received by (Signature)                                                                                | Date 2//                                   | 1/25     | Time                       | 630          | ,           | T1                       |                  |          | <u>T2</u> |       |             |        | T3                                     |                  |            |
| Relinquished by:                                                                                                                      | y: (Signature                                                | V                              | Date                 | 1/24 7            | 348                   | Received by: (Signature)                                                                               | Date                                       | 924      | Time                       | leic         | ).          | AVG T                    | em               | p °C     | 4         |       |             |        |                                        |                  |            |
| Sample Matrix                                                                                                                         | soil, Sd - So                                                | lid, <b>Sg</b> - Sluc          | dge, A - Aqu         | eous, O - Other _ |                       |                                                                                                        |                                            | _        | oe:g-                      | glass        |             |                          |                  | ag - an  | nber g    | lass, | v - VO      | A      |                                        |                  |            |
| Note: Samples                                                                                                                         | re discarde                                                  | d 30 days                      | after resu           | lts are reported  | unless other a        | arrangements are made. Haz                                                                             | zardous samples v                          | ill be r | eturne                     | d to c       | lient c     | r dispos                 | ed o             | f at the | client    | expen | se. Th      | e repo | ort for the a                          | nalysis of t     | he above   |



Printed: 2/2/2024 9:16:24AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks. If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested. Matador Resources, LLC. F402025 Date Received: 02/02/24 06:10 Work Order ID: Client: Jessica Liesse 02/02/24 08:51 Logged In By: Phone: (972) 371-5200 Date Logged In: 02/08/24 17:00 (4 day TAT) Email: agiovngo@ensolum.com Due Date: Chain of Custody (COC) 1. Does the sample ID match the COC? Yes 2. Does the number of samples per sampling site location match the COC Yes 3. Were samples dropped off by client or carrier? Yes Carrier: Cole Burton Yes 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? 5. Were all samples received within holding time? Yes Note: Analysis, such as pH which should be conducted in the field, Comments/Resolution i.e, 15 minute hold time, are not included in this disucssion. Sample Turn Around Time (TAT) 6. Did the COC indicate standard TAT, or Expedited TAT? Yes Sample Cooler 7. Was a sample cooler received? Yes 8. If yes, was cooler received in good condition? Yes 9. Was the sample(s) received intact, i.e., not broken? Yes 10. Were custody/security seals present? No 11. If yes, were custody/security seals intact? NA 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C Sample Container 14. Are aqueous VOC samples present? No NA 15. Are VOC samples collected in VOA Vials? NA 16. Is the head space less than 6-8 mm (pea sized or less)? 17. Was a trip blank (TB) included for VOC analyses? NA 18. Are non-VOC samples collected in the correct containers? Yes 19. Is the appropriate volume/weight or number of sample containers collected? Yes 20. Were field sample labels filled out with the minimum information: Sample ID? Yes Date/Time Collected? Yes Collectors name? No Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? No 22. Are sample(s) correctly preserved? NA 24. Is lab filteration required and/or requested for dissolved metals? No Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase? No 27. If yes, does the COC specify which phase(s) is to be analyzed? NA Subcontract Laboratory 28. Are samples required to get sent to a subcontract laboratory? No 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA **Client Instruction** 

Signature of client authorizing changes to the COC or sample disposition.

envirotech Inc.

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

Matador Resources, LLC.

Project Name: Charlie Sweeney Fed TB

Work Order: E406219

Job Number: 23003-0002

Received: 6/25/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/28/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/28/24

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Charlie Sweeney Fed TB

Workorder: E406219

Date Received: 6/25/2024 5:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/25/2024 5:15:00AM, under the Project Name: Charlie Sweeney Fed TB.

The analytical test results summarized in this report with the Project Name: Charlie Sweeney Fed TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

#### Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

#### Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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Laboratory Technical Representative Office: 505-421-LABS(5227)

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mgonzales@envirotech-inc.com

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## Sample Summary

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB | Danautada      |
|------------------------------|------------------|------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23003-0002             | Reported:      |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 06/28/24 11:41 |

| Client Sample ID | Lab Sample ID Mat | rix Sampled | Received | Container        |
|------------------|-------------------|-------------|----------|------------------|
| FS03-4'          | E406219-01A So    | il 06/21/24 | 06/25/24 | Glass Jar, 2 oz. |
| FS04-4'          | E406219-02A So    | il 06/21/24 | 06/25/24 | Glass Jar, 2 oz. |
| FS06-14'         | E406219-03A So    | il 06/24/24 | 06/25/24 | Glass Jar, 2 oz. |
|                  | E406219-03B So    | il 06/24/24 | 06/25/24 | Glass Jar, 2 oz. |
| FS07-12'         | E406219-04A So    | il 06/24/24 | 06/25/24 | Glass Jar, 2 oz. |
|                  | E406219-04B So    | il 06/24/24 | 06/25/24 | Glass Jar, 2 oz. |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                      |
|------------------------------|------------------|------------------------|----------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23003-0002             | Reported:            |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 6/28/2024 11:41:32AM |

### FS03-4' E406219-01

|                                                |        | E400217-01         |          |             |          |                |
|------------------------------------------------|--------|--------------------|----------|-------------|----------|----------------|
| Analyte                                        | Result | Reporting<br>Limit | Dilution | Prepared    | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 |        | mg/kg              | Analy    | st: BA      |          | Batch: 2426016 |
| Benzene                                        | ND     | 0.0250             | 1        | 06/25/24    | 06/27/24 |                |
| Ethylbenzene                                   | ND     | 0.0250             | 1        | 06/25/24    | 06/27/24 |                |
| Toluene                                        | ND     | 0.0250             | 1        | 06/25/24    | 06/27/24 |                |
| o-Xylene                                       | ND     | 0.0250             | 1        | 06/25/24    | 06/27/24 |                |
| p,m-Xylene                                     | ND     | 0.0500             | 1        | 06/25/24    | 06/27/24 |                |
| Total Xylenes                                  | ND     | 0.0250             | 1        | 06/25/24    | 06/27/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 92.1 %             | 70-130   | 06/25/24    | 06/27/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg              | Analy    | Analyst: BA |          | Batch: 2426016 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0               | 1        | 06/25/24    | 06/27/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 105 %              | 70-130   | 06/25/24    | 06/27/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg              | Analy    | st: NV      |          | Batch: 2426019 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0               | 1        | 06/25/24    | 06/25/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0               | 1        | 06/25/24    | 06/25/24 |                |
| Surrogate: n-Nonane                            |        | 106 %              | 50-200   | 06/25/24    | 06/25/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg              | Analy    | st: JM      |          | Batch: 2426021 |
| Chloride                                       | 3080   | 200                | 10       | 06/25/24    | 06/25/24 |                |
|                                                |        |                    |          |             |          |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                      |
|------------------------------|------------------|------------------------|----------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23003-0002             | Reported:            |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 6/28/2024 11:41:32AM |

#### FS04-4'

#### E406219-02

|                                                |        | Reporting |          |          |          |                |
|------------------------------------------------|--------|-----------|----------|----------|----------|----------------|
| Analyte                                        | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 |        | mg/kg     | Analy    | st: BA   |          | Batch: 2426016 |
| Benzene                                        | ND     | 0.0250    | 1        | 06/25/24 | 06/27/24 |                |
| Ethylbenzene                                   | ND     | 0.0250    | 1        | 06/25/24 | 06/27/24 |                |
| Toluene                                        | ND     | 0.0250    | 1        | 06/25/24 | 06/27/24 |                |
| o-Xylene                                       | ND     | 0.0250    | 1        | 06/25/24 | 06/27/24 |                |
| p,m-Xylene                                     | ND     | 0.0500    | 1        | 06/25/24 | 06/27/24 |                |
| Total Xylenes                                  | ND     | 0.0250    | 1        | 06/25/24 | 06/27/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 93.2 %    | 70-130   | 06/25/24 | 06/27/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg     | Analy    | st: BA   |          | Batch: 2426016 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0      | 1        | 06/25/24 | 06/27/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 104 %     | 70-130   | 06/25/24 | 06/27/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg     | Analy    | st: NV   |          | Batch: 2426019 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0      | 1        | 06/25/24 | 06/25/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0      | 1        | 06/25/24 | 06/25/24 |                |
| Surrogate: n-Nonane                            |        | 111 %     | 50-200   | 06/25/24 | 06/25/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg     | Analy    | st: JM   |          | Batch: 2426021 |
| ·                                              | •      | 200       | 10       | 06/25/24 | 06/25/24 |                |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                      |
|------------------------------|------------------|------------------------|----------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23003-0002             | Reported:            |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 6/28/2024 11:41:32AM |

#### FS06-14' E406219-03

|                                                |        | 1100217 05         |          |             |          |                |
|------------------------------------------------|--------|--------------------|----------|-------------|----------|----------------|
| Analyte                                        | Result | Reporting<br>Limit | Dilution | Prepared    | Analyzed | Notes          |
| Volatile Organics by EPA 8021B                 |        | mg/kg              | Analy    | st: BA      |          | Batch: 2426016 |
| Benzene                                        | ND     | 0.0250             | 1        | 06/25/24    | 06/27/24 |                |
| Ethylbenzene                                   | ND     | 0.0250             | 1        | 06/25/24    | 06/27/24 |                |
| Toluene                                        | ND     | 0.0250             | 1        | 06/25/24    | 06/27/24 |                |
| o-Xylene                                       | ND     | 0.0250             | 1        | 06/25/24    | 06/27/24 |                |
| p,m-Xylene                                     | ND     | 0.0500             | 1        | 06/25/24    | 06/27/24 |                |
| Total Xylenes                                  | ND     | 0.0250             | 1        | 06/25/24    | 06/27/24 |                |
| Surrogate: 4-Bromochlorobenzene-PID            |        | 91.6 %             | 70-130   | 06/25/24    | 06/27/24 |                |
| Nonhalogenated Organics by EPA 8015D - GRO     | mg/kg  | mg/kg              | Analy    | Analyst: BA |          | Batch: 2426016 |
| Gasoline Range Organics (C6-C10)               | ND     | 20.0               | 1        | 06/25/24    | 06/27/24 |                |
| Surrogate: 1-Chloro-4-fluorobenzene-FID        |        | 104 %              | 70-130   | 06/25/24    | 06/27/24 |                |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg  | mg/kg              | Analy    | st: NV      |          | Batch: 2426019 |
| Diesel Range Organics (C10-C28)                | ND     | 25.0               | 1        | 06/25/24    | 06/25/24 |                |
| Oil Range Organics (C28-C36)                   | ND     | 50.0               | 1        | 06/25/24    | 06/25/24 |                |
| Surrogate: n-Nonane                            |        | 99.4 %             | 50-200   | 06/25/24    | 06/25/24 |                |
| Anions by EPA 300.0/9056A                      | mg/kg  | mg/kg              | Analy    | Analyst: JM |          | Batch: 2426021 |
| Chloride                                       | ND     | 200                | 10       | 06/25/24    | 06/25/24 |                |
|                                                |        |                    |          |             |          |                |



Chloride

### Sample Data

Matador Resources, LLC. Project Name: Charlie Sweeney Fed TB 23003-0002 5400 LBJ Freeway, Suite 1500 Project Number: Reported: Dallas TX, 75240 6/28/2024 11:41:32AM Project Manager: Ashley Giovengo

#### FS07-12' E406219-04

#### Reporting Analyte Result Limit Dilution Analyzed Prepared Notes Analyst: BA Batch: 2426016 mg/kg mg/kg Volatile Organics by EPA 8021B 06/25/24 06/27/24 ND 0.0250 Benzene 06/25/24 06/27/24 Ethylbenzene ND 0.02501 ND 0.0250 1 06/25/24 06/27/24 Toluene 1 06/25/24 06/27/24 o-Xylene ND 0.02501 06/25/24 06/27/24 ND 0.0500 p,m-Xylene 06/25/24 06/27/24 1 Total Xylenes ND 0.025006/27/24 91.6% 70-130 06/25/24 Surrogate: 4-Bromochlorobenzene-PID mg/kg Analyst: BA Batch: 2426016 Nonhalogenated Organics by EPA 8015D - GRO mg/kg ND 20.0 1 06/25/24 06/27/24 Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID 105 % 06/25/24 06/27/24 70-130 mg/kg mg/kg Analyst: NV Batch: 2426019 Nonhalogenated Organics by EPA 8015D - DRO/ORO ND 25.0 06/25/24 06/25/24 Diesel Range Organics (C10-C28) 06/25/24 06/25/24 Oil Range Organics (C28-C36) ND 50.0 1 06/25/24 06/25/24 Surrogate: n-Nonane 105 % 50-200 mg/kg Analyst: JM Batch: 2426021 Anions by EPA 300.0/9056A mg/kg ND 200 10 06/25/24 06/25/24



## **QC Summary Data**

| Matador Resources, LLC.<br>5400 LBJ Freeway, Suite 1500 | Project Name: Project Number: | Charlie Sweeney Fed TB<br>23003-0002 | Reported:            |
|---------------------------------------------------------|-------------------------------|--------------------------------------|----------------------|
| Dallas TX, 75240                                        | Project Manager:              | Ashley Giovengo                      | 6/28/2024 11:41:32AM |

| Dallas TX, 75240                    |        | Project Manager:   |                | shley Gioveng    | 10        |               |             | 6/2          | 8/2024 11:41:32AN |
|-------------------------------------|--------|--------------------|----------------|------------------|-----------|---------------|-------------|--------------|-------------------|
| ,                                   |        |                    |                |                  |           |               |             |              |                   |
|                                     |        | Volatile O         | rganics i      | oy EPA 802       | 118       |               |             |              | Analyst: BA       |
| Analyte                             | Result | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec       | Rec<br>Limits | RPD         | RPD<br>Limit |                   |
|                                     | mg/kg  | mg/kg              | mg/kg          | mg/kg            | %         | %             | %           | %            | Notes             |
| Blank (2426016-BLK1)                |        |                    |                |                  |           |               | Prepared: 0 | 6/25/24 Anal | yzed: 06/27/24    |
| Benzene                             | ND     | 0.0250             |                |                  |           |               |             |              |                   |
| Ethylbenzene                        | ND     | 0.0250             |                |                  |           |               |             |              |                   |
| Toluene                             | ND     | 0.0250             |                |                  |           |               |             |              |                   |
| o-Xylene                            | ND     | 0.0250             |                |                  |           |               |             |              |                   |
| p,m-Xylene                          | ND     | 0.0500             |                |                  |           |               |             |              |                   |
| Total Xylenes                       | ND     | 0.0250             |                |                  |           |               |             |              |                   |
| Surrogate: 4-Bromochlorobenzene-PID | 7.42   |                    | 8.00           |                  | 92.7      | 70-130        |             |              |                   |
| LCS (2426016-BS1)                   |        |                    |                |                  |           |               | Prepared: 0 | 6/25/24 Anal | yzed: 06/27/24    |
| Benzene                             | 5.07   | 0.0250             | 5.00           |                  | 101       | 70-130        |             |              |                   |
| Ethylbenzene                        | 4.78   | 0.0250             | 5.00           |                  | 95.6      | 70-130        |             |              |                   |
| Toluene                             | 5.00   | 0.0250             | 5.00           |                  | 100       | 70-130        |             |              |                   |
| o-Xylene                            | 4.88   | 0.0250             | 5.00           |                  | 97.5      | 70-130        |             |              |                   |
| o,m-Xylene                          | 9.82   | 0.0500             | 10.0           |                  | 98.2      | 70-130        |             |              |                   |
| Total Xylenes                       | 14.7   | 0.0250             | 15.0           |                  | 98.0      | 70-130        |             |              |                   |
| Surrogate: 4-Bromochlorobenzene-PID | 7.47   |                    | 8.00           |                  | 93.3      | 70-130        |             |              |                   |
| Matrix Spike (2426016-MS1)          |        |                    |                | Source:          | E406219-0 | 02            | Prepared: 0 | 6/25/24 Anal | yzed: 06/27/24    |
| Benzene                             | 5.12   | 0.0250             | 5.00           | ND               | 102       | 54-133        |             |              |                   |
| Ethylbenzene                        | 4.80   | 0.0250             | 5.00           | ND               | 96.1      | 61-133        |             |              |                   |
| Toluene                             | 5.03   | 0.0250             | 5.00           | ND               | 101       | 61-130        |             |              |                   |
| o-Xylene                            | 4.92   | 0.0250             | 5.00           | ND               | 98.3      | 63-131        |             |              |                   |
| p,m-Xylene                          | 9.88   | 0.0500             | 10.0           | ND               | 98.8      | 63-131        |             |              |                   |
| Total Xylenes                       | 14.8   | 0.0250             | 15.0           | ND               | 98.7      | 63-131        |             |              |                   |
| Surrogate: 4-Bromochlorobenzene-PID | 7.46   |                    | 8.00           |                  | 93.2      | 70-130        |             |              |                   |
| Matrix Spike Dup (2426016-MSD1)     |        |                    |                | Source:          | E406219-0 | 02            | Prepared: 0 | 6/25/24 Anal | yzed: 06/27/24    |
| Benzene                             | 5.04   | 0.0250             | 5.00           | ND               | 101       | 54-133        | 1.61        | 20           |                   |
| Ethylbenzene                        | 4.74   | 0.0250             | 5.00           | ND               | 94.7      | 61-133        | 1.43        | 20           |                   |
| Toluene                             | 4.96   | 0.0250             | 5.00           | ND               | 99.1      | 61-130        | 1.51        | 20           |                   |
| o-Xylene                            | 4.85   | 0.0250             | 5.00           | ND               | 96.9      | 63-131        | 1.45        | 20           |                   |
| p,m-Xylene                          | 9.75   | 0.0500             | 10.0           | ND               | 97.5      | 63-131        | 1.40        | 20           |                   |
| Total Xylenes                       | 14.6   | 0.0250             | 15.0           | ND               | 97.3      | 63-131        | 1.42        | 20           |                   |
|                                     |        |                    | 0.00           |                  | 00.0      | Z0 111        |             |              |                   |



70-130

Surrogate: 4-Bromochlorobenzene-PID

Gasoline Range Organics (C6-C10)

Surrogate: 1-Chloro-4-fluorobenzene-FID

46.5

8.50

20.0

## **QC Summary Data**

Matador Resources, LLC.Project Name:Charlie Sweeney Fed TBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo6/28/2024 11:41:32AM

| Dallas TX, 75240                        |                                            | Project Manage     | r: As          | hley Gioveng     | go       |               |             | 6/2          | 28/2024 11:41:32AN |  |  |
|-----------------------------------------|--------------------------------------------|--------------------|----------------|------------------|----------|---------------|-------------|--------------|--------------------|--|--|
|                                         | Nonhalogenated Organics by EPA 8015D - GRO |                    |                |                  |          |               |             |              | Analyst: BA        |  |  |
| Analyte                                 | Result                                     | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec      | Rec<br>Limits | RPD         | RPD<br>Limit |                    |  |  |
|                                         | mg/kg                                      | mg/kg              | mg/kg          | mg/kg            | %        | %             | %           | %            | Notes              |  |  |
| Blank (2426016-BLK1)                    |                                            |                    |                |                  |          |               | Prepared: 0 | 6/25/24 Ana  | lyzed: 06/27/24    |  |  |
| Gasoline Range Organics (C6-C10)        | ND                                         | 20.0               |                |                  |          |               |             |              |                    |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.34                                       |                    | 8.00           |                  | 104      | 70-130        |             |              |                    |  |  |
| LCS (2426016-BS2)                       |                                            |                    |                |                  |          |               | Prepared: 0 | 6/25/24 Ana  | lyzed: 06/27/24    |  |  |
| Gasoline Range Organics (C6-C10)        | 51.5                                       | 20.0               | 50.0           |                  | 103      | 70-130        |             |              |                    |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.49                                       |                    | 8.00           |                  | 106      | 70-130        |             |              |                    |  |  |
| Matrix Spike (2426016-MS2)              |                                            |                    |                | Source:          | E406219- | 02            | Prepared: 0 | 6/25/24 Ana  | lyzed: 06/27/24    |  |  |
| Gasoline Range Organics (C6-C10)        | 48.8                                       | 20.0               | 50.0           | ND               | 97.5     | 70-130        |             |              |                    |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 8.52                                       |                    | 8.00           |                  | 106      | 70-130        |             |              |                    |  |  |
| Matrix Spike Dup (2426016-MSD2)         |                                            |                    |                | Source:          | E406219- | 02            | Prepared: 0 | 6/25/24 Ana  | lyzed: 06/27/24    |  |  |

50.0 8.00 ND

106

70-130

70-130

4.77

20

## **QC Summary Data**

Matador Resources, LLC.Project Name:Charlie Sweeney Fed TBReported:5400 LBJ Freeway, Suite 1500Project Number:23003-0002Dallas TX, 75240Project Manager:Ashley Giovengo6/28/2024 11:41:32AM

| Dallas 1X, /5240                |        | Project Manager    | r: As          | niey Gioveng     | go        |               |             | 0/           | 28/2024 11:41:32AI |
|---------------------------------|--------|--------------------|----------------|------------------|-----------|---------------|-------------|--------------|--------------------|
|                                 | Nonha  | logenated Or       | ganics by      | EPA 8015I        | ) - DRO   | /ORO          |             |              | Analyst: NV        |
| Analyte                         | Result | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec       | Rec<br>Limits | RPD         | RPD<br>Limit |                    |
|                                 | mg/kg  | mg/kg              | mg/kg          | mg/kg            | %         | %             | %           | %            | Notes              |
| Blank (2426019-BLK1)            |        |                    |                |                  |           |               | Prepared: 0 | 6/25/24 An   | alyzed: 06/25/24   |
| tiesel Range Organics (C10-C28) | ND     | 25.0               |                |                  |           |               |             |              |                    |
| vil Range Organics (C28-C36)    | ND     | 50.0               |                |                  |           |               |             |              |                    |
| urrogate: n-Nonane              | 48.0   |                    | 50.0           |                  | 95.9      | 50-200        |             |              |                    |
| .CS (2426019-BS1)               |        |                    |                |                  |           |               | Prepared: 0 | 6/25/24 An   | alyzed: 06/25/24   |
| riesel Range Organics (C10-C28) | 291    | 25.0               | 250            |                  | 116       | 38-132        |             |              |                    |
| urrogate: n-Nonane              | 50.7   |                    | 50.0           |                  | 101       | 50-200        |             |              |                    |
| Matrix Spike (2426019-MS1)      |        |                    |                | Source:          | E406220-0 | 01            | Prepared: 0 | 6/25/24 An   | alyzed: 06/25/24   |
| tiesel Range Organics (C10-C28) | 321    | 25.0               | 250            | ND               | 129       | 38-132        |             |              |                    |
| urrogate: n-Nonane              | 55.3   |                    | 50.0           |                  | 111       | 50-200        |             |              |                    |
| Matrix Spike Dup (2426019-MSD1) |        |                    |                | Source:          | E406220-0 | 01            | Prepared: 0 | 6/25/24 An   | alyzed: 06/25/24   |
| tiesel Range Organics (C10-C28) | 309    | 25.0               | 250            | ND               | 123       | 38-132        | 4.06        | 20           |                    |
| urrogate: n-Nonane              | 53.1   |                    | 50.0           |                  | 106       | 50-200        |             |              |                    |

Chloride

## **QC Summary Data**

| Matador Resources, LLC.<br>5400 LBJ Freeway, Suite 1500<br>Dallas TX, 75240 |                 | Project Name: Project Number: Project Manager | :                       | Charlie Sweene<br>23003-0002<br>Ashley Gioveng | •         |               |             |                   | <b>Reported:</b> 6/28/2024 11:41:32AM |
|-----------------------------------------------------------------------------|-----------------|-----------------------------------------------|-------------------------|------------------------------------------------|-----------|---------------|-------------|-------------------|---------------------------------------|
|                                                                             |                 | Anions                                        | by EPA                  | 300.0/9056                                     | <b>A</b>  |               |             |                   | Analyst: JM                           |
| Analyte                                                                     | Result<br>mg/kg | Reporting<br>Limit<br>mg/kg                   | Spike<br>Level<br>mg/kg | Source<br>Result<br>mg/kg                      | Rec<br>%  | Rec<br>Limits | RPD<br>%    | RPD<br>Limit<br>% | Notes                                 |
| Blank (2426021-BLK1)                                                        |                 |                                               |                         |                                                |           |               | Prepared: 0 | 6/25/24 A         | nalyzed: 06/25/24                     |
| Chloride                                                                    | ND              | 20.0                                          |                         |                                                |           |               |             |                   |                                       |
| LCS (2426021-BS1)                                                           |                 |                                               |                         |                                                |           |               | Prepared: 0 | 6/25/24 A         | nalyzed: 06/25/24                     |
| Chloride                                                                    | 250             | 20.0                                          | 250                     |                                                | 100       | 90-110        |             |                   |                                       |
| Matrix Spike (2426021-MS1)                                                  |                 |                                               |                         | Source:                                        | E406216-0 | 06            | Prepared: 0 | 6/25/24 A         | nalyzed: 06/25/24                     |
| Chloride                                                                    | 500             | 20.0                                          | 250                     | 245                                            | 102       | 80-120        |             |                   |                                       |
| Matrix Spike Dup (2426021-MSD1)                                             |                 |                                               |                         | Source:                                        | E406216-  | 06            | Prepared: 0 | 6/25/24 A         | nalyzed: 06/25/24                     |

250

20.0

245

101

80-120

0.792

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



## **Definitions and Notes**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                |
|------------------------------|------------------|------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23003-0002             | Reported:      |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 06/28/24 11:41 |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



**Chain of Custody** 

| ı   | Page |    | 9 | of | 1 | Rec                                   |
|-----|------|----|---|----|---|---------------------------------------|
| te  |      |    | 1 |    |   | eive                                  |
| Т   | TX   |    |   |    |   | d by                                  |
|     |      |    | 1 |    |   | 0C                                    |
| rai | n    |    |   |    |   | D                                     |
| 1   | RC   | RA |   |    |   | 9/1                                   |
|     | or   | N  |   |    |   | 8/2024                                |
| (S  |      |    |   |    |   | Received by OCD: 9/18/2024 9:56:21 AM |
|     |      |    |   |    |   | AM                                    |

|            | Clie                                | nt Inform      | nation           |             |                    | Invoice Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      |             | Lab Use Only |                 |                 |              |             | TAT State      |            |                | e             |       |              |                                   |             |         |
|------------|-------------------------------------|----------------|------------------|-------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------|--------------|-----------------|-----------------|--------------|-------------|----------------|------------|----------------|---------------|-------|--------------|-----------------------------------|-------------|---------|
| Client: N  | latador Prod                        | luction C      | ompany           |             | Co                 | mpany: Ensolum LLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      | L           | ab V         | VO#             |                 |              | Job I       | Num            | ber        |                | 1D            | 2D    | 3D Std       | NM                                | CO UT       | TX      |
|            | Charlie Swee                        |                |                  |             | Ad                 | dress: 3122 National Parks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Hwy                  |             |              |                 | 19              |              | 230         |                |            | 2              |               | 1360  | x            | x                                 |             |         |
|            | lanager: Asl                        |                | 4                |             |                    | y, State, Zip: Carlsbad NM,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Constant of the con- |             |              | ALD E           |                 |              |             |                | -          |                |               |       |              |                                   |             |         |
|            | 3122 Natio                          |                |                  |             | 100                | one: 575-988-0055                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |             | Г            |                 |                 |              | Ana         | lysis          | and        | Met            | hod           |       |              | EP                                | A Progra    | am      |
|            | e, Zip: Carls                       | 1 11 1 1 1     |                  |             |                    | nail: agiovengo@ensolum.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | com                  |             |              |                 |                 |              |             | ,,             |            |                |               |       |              | SDWA                              | CWA         | RCRA    |
|            | 75-988-005                          |                | OOLLO            |             |                    | Miscellaneous:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      | _           |              |                 |                 |              |             | (1)            |            |                |               |       |              | 351111                            | Citi        | 1101111 |
|            | giovengo@e                          |                | om               |             | - Iviis            | Wiscenarieous.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |             |              |                 |                 |              |             |                |            |                |               |       |              | Complian                          | ce Y        | or N    |
| Lilian. as | giovengo@e                          | 113010111.0    | .0111            |             |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |             |              | 3015            | 3015            |              |             |                |            |                | 10            |       |              | PWSID#                            | .6   1      | 01 11   |
|            |                                     |                |                  | Sami        | ole Informati      | on                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      | -           |              | DRO/ORO by 8015 | GRO/DRO by 8015 | 3021         | 260         | Chloride 300.0 | NN         | - TX           | RCRA 8 Metals |       |              | F WSID #                          |             |         |
| Time       |                                     | 1000           | No. of           |             |                    | SECTION AND ADDRESS OF THE PARTY OF THE PART | ю ;                  | Lab         |              | ORC             | 'DRC            | by 8         | by 8        | ide            | - 20       | 1005           | 8 8           |       |              |                                   | Remarks     |         |
| Sampled    | Date Sampled                        | Matrix         | Containers       |             |                    | Sample ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Field                | Lab<br>Numb | ber          | DRO/            | 3RO/            | BTEX by 8021 | VOC by 8260 | chlor          | BGDOC - NM | TCEQ 1005 - TX | RCRA          |       |              |                                   | nemanio     |         |
| 13:55      | 6/21/2024                           | Soil           | 1                |             |                    | FS03 - 4'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      | 1           |              |                 |                 |              |             |                | х          |                |               |       |              |                                   |             |         |
| 13:53      | 6/21/2024                           | Soil           | 1                |             |                    | FS04 - 4'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      | Z           |              |                 |                 |              |             |                | х          |                |               |       |              |                                   |             |         |
| 9:40       | 6/24/2024                           | Solid          | 2                |             |                    | FS06 - 14'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      | 3           |              |                 |                 |              |             |                | х          |                |               |       |              |                                   |             |         |
| 9:36       | 6/24/2024                           | Solid          | 2                |             |                    | FS07 - 12'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      | U           |              | П               |                 |              |             |                | х          |                |               |       |              |                                   |             |         |
|            |                                     |                |                  |             |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |             |              |                 |                 |              |             |                |            |                |               |       |              |                                   |             |         |
|            |                                     |                |                  |             |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |             |              |                 |                 |              |             |                |            |                |               |       |              |                                   |             |         |
|            |                                     |                |                  |             |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |             |              |                 |                 |              |             |                |            |                |               |       |              |                                   |             |         |
|            |                                     |                |                  |             |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |             |              |                 |                 |              |             |                |            |                |               |       |              |                                   |             |         |
|            |                                     |                |                  |             |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |             |              |                 |                 |              |             |                |            |                |               |       |              |                                   |             |         |
|            |                                     |                |                  |             |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |             |              |                 | U               |              |             |                |            |                |               |       |              |                                   |             |         |
| Addition   | al Instruction                      | ns: Ple        | ase CC: cbu      | ırton@e     | nsolum.com         | , agiovengo@ensolum.com,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | , iestrella          | @enso       | olum         | .con            | n, bd           | eal@         | ens         | olun           | ı.cor      | n              |               |       |              |                                   |             |         |
|            | oler), attest to the                | e validity and | d authenticity o | f this samp | le. I am aware tha | at tampering with or intentionally misla                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | beling the sa        | ample loca  | ation,       | date o          | or time         | of co        | llectio     | n is co        | nsidere    | ed frau        | d and         | may b | e grounds fo | r legal action.                   | 9           |         |
|            | ed by: (Signatu                     | re             | Date             | 4/24        | Time               | Received by: (Signature)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Date                 | 24-2        | 4            | Time            | 13              | Ò            |             |                | sample     |                | ceived        |       |              | ust be received<br>g temp above ( |             |         |
| mid        |                                     | ufor           | Date             | W-24        | 2300               | Received by: (Signature)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      | 25-2        | ų            |                 | 515             | 5            |             |                |            |                | d on i        | ice:  | Lab U        | se Only                           |             |         |
| Relinquish | ed by: (Signatu                     | re)            | Date             |             | Time               | Received by: (Signature)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Date                 |             |              | Time            |                 |              |             |                | <u>T1</u>  |                |               |       | <u>T2</u>    |                                   | T3          |         |
|            | ed by: (Signatu                     |                | Date             |             | Time               | Received by: (Signature)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Date                 |             |              | Time            |                 |              |             |                |            |                | np °C         |       |              |                                   |             |         |
|            | rix: <b>S</b> - Soil, <b>Sd</b> - S |                |                  |             |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      | ntainer     |              | -               |                 |              |             |                | 7          |                | -             |       |              |                                   |             |         |
|            |                                     |                |                  |             |                    | r arrangements are made. Hazardo<br>n this COC. The liability of the labor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |             |              |                 |                 |              |             |                |            | e clier        | nt exp        | ense. | The report   | for the ana                       | ysis of the | above   |



Printed: 6/26/2024 8:29:35AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

|            | to response concerning these items within 24 nours of                                                                                            |                  | -        | -                 | · · · · · · · · · · · · · · · · · · · |                |                |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|-------------------|---------------------------------------|----------------|----------------|
| Client:    | Matador Resources, LLC.                                                                                                                          | Date Received:   | 06/25/24 | 05:15             | 7                                     | Work Order ID: | E406219        |
| Phone:     | (972) 371-5200                                                                                                                                   | Date Logged In:  | 06/24/24 | 16:24             | I                                     | Logged In By:  | Alexa Michaels |
| Email:     | agiovngo@ensolum.com                                                                                                                             | Due Date:        | 07/01/24 | 17:00 (4 day TAT) |                                       |                |                |
| Chain o    | f Custody (COC)                                                                                                                                  |                  |          |                   |                                       |                |                |
|            | the sample ID match the COC?                                                                                                                     |                  | Yes      |                   |                                       |                |                |
|            | the number of samples per sampling site location ma                                                                                              | tch the COC      | Yes      |                   |                                       |                |                |
|            | samples dropped off by client or carrier?                                                                                                        |                  | Yes      | Carrier: C        | `ourier                               |                |                |
|            | ne COC complete, i.e., signatures, dates/times, reque                                                                                            | sted analyses?   | Yes      | carrier. <u>c</u> | <u>Jourier</u>                        |                |                |
|            | all samples received within holding time?                                                                                                        | ,,               | Yes      |                   |                                       |                |                |
|            | Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi                              | •                |          |                   |                                       | Comment        | s/Resolution   |
| Sample '   | <u> Turn Around Time (TAT)</u>                                                                                                                   |                  |          |                   |                                       |                |                |
| 6. Did th  | e COC indicate standard TAT, or Expedited TAT?                                                                                                   |                  | Yes      |                   |                                       |                |                |
| Sample     | <u>Cooler</u>                                                                                                                                    |                  |          |                   |                                       |                |                |
| 7. Was a   | sample cooler received?                                                                                                                          |                  | Yes      |                   |                                       |                |                |
| 8. If yes, | was cooler received in good condition?                                                                                                           |                  | Yes      |                   |                                       |                |                |
| 9. Was th  | ne sample(s) received intact, i.e., not broken?                                                                                                  |                  | Yes      |                   |                                       |                |                |
| 10. Were   | custody/security seals present?                                                                                                                  |                  | No       |                   |                                       |                |                |
| 11. If yes | s, were custody/security seals intact?                                                                                                           |                  | NA       |                   |                                       |                |                |
| 12. Was t  | he sample received on ice? If yes, the recorded temp is 4°C.<br>Note: Thermal preservation is not required, if samples ar<br>minutes of sampling |                  | Yes      |                   |                                       |                |                |
| 13. If no  | visible ice, record the temperature.                                                                                                             | temperature: 4°0 | <u>C</u> |                   |                                       |                |                |
| Sample     | Container_                                                                                                                                       |                  |          |                   |                                       |                |                |
| 14. Are a  | aqueous VOC samples present?                                                                                                                     |                  | No       |                   |                                       |                |                |
| 15. Are    | VOC samples collected in VOA Vials?                                                                                                              |                  | NA       |                   |                                       |                |                |
| 16. Is the | e head space less than 6-8 mm (pea sized or less)?                                                                                               |                  | NA       |                   |                                       |                |                |
| 17. Was    | a trip blank (TB) included for VOC analyses?                                                                                                     |                  | NA       |                   |                                       |                |                |
| 18. Are 1  | non-VOC samples collected in the correct containers                                                                                              | ?                | Yes      |                   |                                       |                |                |
| 19. Is the | appropriate volume/weight or number of sample contain                                                                                            | ners collected?  | Yes      |                   |                                       |                |                |
| Field La   | <u>bel</u>                                                                                                                                       |                  |          |                   |                                       |                |                |
| 20. Were   | field sample labels filled out with the minimum info                                                                                             | ormation:        |          |                   |                                       |                |                |
|            | Sample ID?                                                                                                                                       |                  | Yes      |                   |                                       |                |                |
|            | Date/Time Collected?                                                                                                                             |                  | Yes      | •                 |                                       |                |                |
|            | Collectors name?                                                                                                                                 |                  | Yes      |                   |                                       |                |                |
|            | Preservation the COC or field labels indicate the samples were p                                                                                 | recerved?        | No       |                   |                                       |                |                |
|            | sample(s) correctly preserved?                                                                                                                   | reserveu:        | NA       |                   |                                       |                |                |
|            | o filteration required and/or requested for dissolved n                                                                                          | netals?          | No       |                   |                                       |                |                |
|            |                                                                                                                                                  | ilouis.          | 110      |                   |                                       |                |                |
|            | ase Sample Matrix the sample have more than one phase, i.e., multipha                                                                            |                  | 3.7      |                   |                                       |                |                |
|            | s, does the COC specify which phase(s) is to be analy                                                                                            |                  | No       |                   |                                       |                |                |
|            |                                                                                                                                                  | yzeur            | NA       |                   |                                       |                |                |
|            | ract Laboratory                                                                                                                                  |                  |          |                   |                                       |                |                |
|            | samples required to get sent to a subcontract laborato                                                                                           | •                | No       |                   |                                       |                |                |
| 29. Was    | a subcontract laboratory specified by the client and i                                                                                           | f so who?        | NA       | Subcontract Lab   | o: NA                                 |                |                |
| Client I   | <u>nstruction</u>                                                                                                                                |                  |          |                   |                                       |                |                |
|            |                                                                                                                                                  |                  |          |                   |                                       |                |                |
|            |                                                                                                                                                  |                  |          |                   |                                       |                |                |
|            |                                                                                                                                                  |                  |          |                   |                                       |                |                |
|            |                                                                                                                                                  |                  |          |                   |                                       |                |                |
|            |                                                                                                                                                  |                  |          |                   |                                       |                |                |
|            |                                                                                                                                                  |                  |          |                   |                                       |                |                |
|            |                                                                                                                                                  |                  |          |                   |                                       |                |                |
|            |                                                                                                                                                  |                  |          |                   |                                       |                |                |
|            |                                                                                                                                                  |                  |          |                   |                                       |                |                |

Date

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

Matador Resources, LLC.

Project Name: Charlie Sweeney Fed TB

Work Order: E409020

Job Number: 23003-0002

Received: 9/5/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/10/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/10/24

Ashley Giovengo 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Project Name: Charlie Sweeney Fed TB

Workorder: E409020

Date Received: 9/5/2024 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/5/2024 6:00:00AM, under the Project Name: Charlie Sweeney Fed TB.

The analytical test results summarized in this report with the Project Name: Charlie Sweeney Fed TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

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Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com



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## Sample Summary

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB | Reported:      |
|------------------------------|------------------|------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23003-0002             | Reported:      |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 09/10/24 15:31 |

| Client Sample ID | Lab Sample ID Mat | rix Sampled | Received | Container        |
|------------------|-------------------|-------------|----------|------------------|
| SW05 - 0-4'      | E409020-01A So    | 1 09/03/24  | 09/05/24 | Glass Jar, 2 oz. |
| SW06 - 0-4'      | E409020-02A So    | 1 09/03/24  | 09/05/24 | Glass Jar, 2 oz. |
| SW07 - 4-14'     | E409020-03A So    | 1 09/03/24  | 09/05/24 | Glass Jar, 2 oz. |
| SW08 - 0-14'     | E409020-04A So    | 1 09/03/24  | 09/05/24 | Glass Jar, 2 oz. |
| SW09 - 0-12'     | E409020-05A So    | 1 09/03/24  | 09/05/24 | Glass Jar, 2 oz. |
| SW10 - 4-14'     | E409020-06A So    | 1 09/03/24  | 09/05/24 | Glass Jar, 2 oz. |
| SW11 - 4-14'     | E409020-07A So    | 1 09/03/24  | 09/05/24 | Glass Jar, 2 oz. |
| SW12 - 4-12'     | E409020-08A So    | 1 09/03/24  | 09/05/24 | Glass Jar, 2 oz. |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23003-0002             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 9/10/2024 3:31:28PM |

SW05 - 0-4'

E409020-01

|                           |        | Reporting |          |          |          |                |  |
|---------------------------|--------|-----------|----------|----------|----------|----------------|--|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |  |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | DT       |          | Batch: 2436051 |  |
| Chloride                  | ND     | 200       | 10       | 09/05/24 | 09/06/24 |                |  |

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23003-0002             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 9/10/2024 3:31:28PM |

SW06 - 0-4'

E409020-02

|                           |        | Reporting |          |          |          |                |  |
|---------------------------|--------|-----------|----------|----------|----------|----------------|--|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |  |
|                           |        |           |          |          |          |                |  |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | DT       |          | Batch: 2436051 |  |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23003-0002             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 9/10/2024 3:31:28PM |

SW07 - 4-14'

#### E409020-03

|                           |        | Reporting |          |          |          |                |  |
|---------------------------|--------|-----------|----------|----------|----------|----------------|--|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |  |
|                           |        |           |          |          |          |                |  |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | : DT     |          | Batch: 2436051 |  |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23003-0002             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 9/10/2024 3:31:28PM |

SW08 - 0-14'

| E40 | M | ากก | 0.4 |
|-----|---|-----|-----|
|     |   |     |     |
|     |   |     |     |

|                           |        | Reporting |          |          |          |                |  |
|---------------------------|--------|-----------|----------|----------|----------|----------------|--|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |  |
|                           |        |           |          |          |          |                |  |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | DT       |          | Batch: 2436051 |  |



| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23003-0002             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 9/10/2024 3:31:28PM |

SW09 - 0-12'

| E409 | 902 | 0-05 | 5 |
|------|-----|------|---|
|------|-----|------|---|

|                           |        | Reporting |          |          |          |                |  |
|---------------------------|--------|-----------|----------|----------|----------|----------------|--|
| Analyte                   | Result | Limit     | Dilution | Prepared | Analyzed | Notes          |  |
|                           |        |           |          |          |          |                |  |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: | : DT     |          | Batch: 2436051 |  |



# **Sample Data**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23003-0002             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 9/10/2024 3:31:28PM |

SW10 - 4-14'

| E40902 | 0-06 |
|--------|------|
|--------|------|

|                           |        | Reporting |             |          |          |                |  |
|---------------------------|--------|-----------|-------------|----------|----------|----------------|--|
| Analyte                   | Result | Limit     | Dilution    | Prepared | Analyzed | Notes          |  |
|                           |        |           | Analyst: DT |          |          |                |  |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst:    | DT       |          | Batch: 2436051 |  |



# **Sample Data**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23003-0002             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 9/10/2024 3:31:28PM |

SW11 - 4-14'

# E409020-07

|                           |        | Reporting |             |          |          |                |  |
|---------------------------|--------|-----------|-------------|----------|----------|----------------|--|
| Analyte                   | Result | Limit     | Dilution    | Prepared | Analyzed | Notes          |  |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst: DT |          | ·        | Batch: 2436051 |  |
| Chloride                  | 184    | 20.0      | 1           | 09/05/24 | 09/06/24 |                |  |



# **Sample Data**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                     |
|------------------------------|------------------|------------------------|---------------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23003-0002             | Reported:           |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 9/10/2024 3:31:28PM |

SW12 - 4-12'

# E409020-08

|                           |        | Reporting |             |          |          |                |  |
|---------------------------|--------|-----------|-------------|----------|----------|----------------|--|
| Analyte                   | Result | Limit     | Dilution    | Prepared | Analyzed | Notes          |  |
|                           |        |           | Analyst: DT |          |          |                |  |
| Anions by EPA 300.0/9056A | mg/kg  | mg/kg     | Analyst:    | DT       |          | Batch: 2436051 |  |



# **QC Summary Data**

| Matador Resources, LLC.<br>5400 LBJ Freeway, Suite 1500 | Project Name: Project Number: | Charlie Sweeney Fed TB<br>23003-0002 | Reported:           |
|---------------------------------------------------------|-------------------------------|--------------------------------------|---------------------|
| Dallas TX, 75240                                        | Project Manager:              | Ashley Giovengo                      | 9/10/2024 3:31:28PM |

|                      | Anions by EPA 300.0/9056A |                    |                |                  |     |               |             | Analyst: DT  |                  |
|----------------------|---------------------------|--------------------|----------------|------------------|-----|---------------|-------------|--------------|------------------|
| Analyte              | Result                    | Reporting<br>Limit | Spike<br>Level | Source<br>Result | Rec | Rec<br>Limits | RPD         | RPD<br>Limit |                  |
|                      | mg/kg                     | mg/kg              | mg/kg          | mg/kg            | %   | %             | %           | %            | Notes            |
| Blank (2436051-BLK1) |                           |                    |                |                  |     |               | Prepared: 0 | 9/05/24 Ana  | ilyzed: 09/05/24 |
| Chloride             | ND                        | 20.0               |                |                  |     |               |             |              |                  |
| LCS (2436051-BS1)    |                           |                    |                |                  |     |               | Prepared: 0 | 9/05/24 Ana  | lyzed: 09/05/24  |
| Chloride             | 252                       | 20.0               | 250            |                  | 101 | 90-110        |             |              |                  |

| Chloride                        | 232  | 20.0 | 230 |         | 101       | 90-110 |              |             |                 |  |
|---------------------------------|------|------|-----|---------|-----------|--------|--------------|-------------|-----------------|--|
| Matrix Spike (2436051-MS1)      |      |      |     | Source: | E409020-0 | 03     | Prepared: 09 | 9/05/24 Ana | lyzed: 09/06/24 |  |
| Chloride                        | 3610 | 200  | 250 | 3720    | NR        | 80-120 |              |             | M4              |  |
| Matrix Spike Dup (2436051-MSD1) |      |      |     | Source: | E409020-0 | 03     | Prepared: 09 | 9/05/24 Ana | lyzed: 09/06/24 |  |
| Chloride                        | 3770 | 200  | 250 | 3720    | 23.6      | 80-120 | 4.47         | 20          | M4              |  |
|                                 |      |      |     |         |           |        |              |             |                 |  |
|                                 |      |      |     |         |           |        |              |             |                 |  |

# QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# **Definitions and Notes**

| Matador Resources, LLC.      | Project Name:    | Charlie Sweeney Fed TB |                |
|------------------------------|------------------|------------------------|----------------|
| 5400 LBJ Freeway, Suite 1500 | Project Number:  | 23003-0002             | Reported:      |
| Dallas TX, 75240             | Project Manager: | Ashley Giovengo        | 09/10/24 15:31 |

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



| hain | of | Custod |
|------|----|--------|
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|      | 1 . 1 |
|------|-------|
| Page | of 1  |
|      |       |

|                                                                   | Client Information    |                |                      |                           | Invoice Information                    |                  | Lab Use Only |      |            |                  |              |             | TAT            |            |                | State         |         |             |                                       |          |            |
|-------------------------------------------------------------------|-----------------------|----------------|----------------------|---------------------------|----------------------------------------|------------------|--------------|------|------------|------------------|--------------|-------------|----------------|------------|----------------|---------------|---------|-------------|---------------------------------------|----------|------------|
| Client: Matador Production Company Company: Ensolum LLC           |                       |                |                      |                           |                                        |                  |              |      |            | NM C             | O UT         | TX          |                |            |                |               |         |             |                                       |          |            |
| Project: Charlie Sweeney Fed TB  Address: 3122 National Parks Hwy |                       |                | /y                   |                           |                                        | 09               |              | 0    | 23         | NO.              | 3-0          | 002         |                |            | x              | ×             |         |             |                                       |          |            |
| Project N                                                         | Manager: Ash          | nley Giov      | engo                 |                           | City, State, Zip: Carlsbad NM, 882     | 220              |              |      |            |                  |              |             |                |            |                |               |         |             |                                       |          |            |
| Address:                                                          | 3122 Nation           | nal Parks      | Hwy                  |                           | Phone: 575-988-0055                    |                  |              |      |            |                  |              | Ana         | alysis         | and        | Met            | hod           |         |             | EPA                                   | Progra   | m          |
| City, Stat                                                        | e, Zip: Carls         | bad NM,        | 88220                |                           | Email: agiovengo@ensolum.com           | m                |              |      |            |                  |              |             |                |            |                |               |         |             | SDWA                                  | CWA      | RCRA       |
| Phone: 5                                                          | 575-988-005           | 5              |                      | N                         | Niscellaneous:                         |                  |              |      |            |                  |              |             |                |            |                |               |         |             |                                       |          |            |
| Email: a                                                          | giovengo@e            | nsolum.c       | om                   |                           |                                        |                  |              |      | 8015       | 8015             |              |             |                |            |                |               |         |             | Compliance                            | Y        | or N       |
|                                                                   |                       |                |                      |                           |                                        |                  |              |      | y 80       | y 80             | =            | 0           | 0.0            | -          | ×              | als           |         |             | PWSID#                                |          |            |
|                                                                   |                       |                |                      | Sample Informa            | ition                                  |                  |              |      | 30 b       | 30 b             | 805          | 826         | a 30           | N.         | 05-1           | Met           |         |             |                                       |          |            |
| Time<br>Sampled                                                   | Date Sampled          | Matrix         | No. of<br>Containers |                           | Sample ID                              | Field            | La<br>Num    |      | DRO/ORO by | GRO/DRO by       | BTEX by 802. | VOC by 8260 | Chloride 300.0 | BGDOC - NM | TCEQ 1005 - TX | RCRA 8 Metals |         |             | F                                     | emarks   |            |
| 16:32                                                             | 9/3/2024              | S              | 1                    |                           | SW05 - 0-4'                            |                  | 1            |      |            |                  |              |             | X              |            |                |               |         |             |                                       |          |            |
| 15:17                                                             | 9/3/2024              | S              | 1                    |                           | SW06 - 0-4'                            |                  | 7            | 2    |            |                  |              |             | X              | İ          |                |               |         |             |                                       |          |            |
| 15:33                                                             | 9/3/2024              | S              | 1                    |                           | SW07 - 4-14'                           |                  | 3            | 3    |            |                  |              |             | X              |            |                |               |         |             |                                       |          |            |
| 16:29                                                             | 9/3/2024              | S              | 1                    |                           | SW08 - 0-14'                           |                  | Ц            |      |            |                  |              |             | X              | _          |                |               |         |             |                                       |          |            |
| 15:38                                                             | 9/3/2024              | S              | 1                    |                           | SW09 - 0-12'                           |                  | 5            | -    |            |                  |              |             | X              |            |                |               |         |             |                                       |          |            |
| 16:31                                                             | 9/3/2024              | S              | 1                    |                           | SW10 - 4-14'                           |                  | ,            | 0    |            |                  |              |             | K              | 1          |                |               |         |             |                                       |          |            |
| 15:48                                                             | 9/3/2024              | S              | 1                    |                           | SW11 - 4-14                            |                  |              |      |            |                  |              |             | X              | 1          |                |               |         |             |                                       |          |            |
| 15:52                                                             | 9/3/2024              | S              | 1                    |                           | SW12 - 4-12'                           | 1                | 8            | 3    |            |                  |              |             | X              | † :        |                |               |         |             |                                       |          |            |
|                                                                   |                       |                |                      |                           |                                        |                  |              |      |            |                  |              |             |                |            |                |               |         |             |                                       |          |            |
|                                                                   |                       |                |                      |                           |                                        |                  |              |      |            |                  |              |             |                |            |                |               |         |             |                                       |          |            |
| bsimmo<br>I, (field sam                                           | ns@ensolum            | .com           |                      |                           | n, agiovengo@ensolum.com, iest         |                  |              |      |            |                  |              |             |                |            |                |               |         |             |                                       |          |            |
|                                                                   | ed by: (Signatur      |                | Date 9/              | 4/24 Time 7:30            |                                        | Date             | 4-2          | 4    | Time       | 573              | 0            |             |                | 100000     |                |               |         |             | st be received on<br>temp above 0 but |          |            |
|                                                                   |                       |                |                      | Received by: (Signature)  | 9.                                     | Date 9.4.24 1830 |              |      | 0          | Received on ice: |              |             |                |            | e: (           | Lab U         | se Only |             |                                       |          |            |
| Lake                                                              | ed by: (Signatur      | l <sub>o</sub> | Date<br>Q.           | 4.4 TY00                  | Received by: (Signature)               |                  | 5.2          | 4    | _          | 60               | 00           |             |                | <u>T1</u>  |                |               | _ I     | 2           | I                                     | 3        |            |
|                                                                   | ed by: (Signatur      |                | Date                 | Time                      | Received by: (Signature)               | Date             |              |      | Time       |                  |              |             |                |            |                | np °C_        |         |             |                                       |          |            |
|                                                                   | rix: S - Soil, Sd - S |                |                      | 325 CL 12 GU              |                                        |                  | tainer       |      |            |                  |              |             |                | _          |                | _             |         |             |                                       |          |            |
| Note: Sam                                                         | ples are discard      | ed 14 days     | after results        | are reported unless other | r arrangements are made. Hazardous sar | nples wi         | ill be ret   | urne | d to cl    | lient o          | or disp      | osed        | of at t        | he cli     | ent ex         | pense.        | The rep | ort for the | ne analysis of t                      | he above | samples is |

applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Printed: 9/5/2024 7:30:53AM

# **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

| Client:      | Matador Resources, LLC.                                                                                                                                                                                | Date Received:    | 09/05/24 06 | 5:00             | V              | Vork Order ID: | E409020      |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|------------------|----------------|----------------|--------------|
| Phone:       | (972) 371-5200                                                                                                                                                                                         | Date Logged In:   | 09/04/24 17 | 7:48             | I              | ogged In By:   | Noe Soto     |
| Email:       | agiovngo@ensolum.com                                                                                                                                                                                   | Due Date:         | 09/11/24 17 | 7:00 (4 day TAT) |                |                |              |
| ~            | G (GGG)                                                                                                                                                                                                |                   |             |                  |                |                |              |
|              | Custody (COC)                                                                                                                                                                                          |                   | ••          |                  |                |                |              |
|              | e sample ID match the COC?                                                                                                                                                                             | ah tha COC        | Yes         |                  |                |                |              |
|              | e number of samples per sampling site location mat                                                                                                                                                     | cn the COC        | Yes         |                  |                |                |              |
|              | amples dropped off by client or carrier?                                                                                                                                                               | . 1 1 0           | Yes         | Carrier: C       | <u>Courier</u> |                |              |
|              | e COC complete, i.e., signatures, dates/times, reques                                                                                                                                                  | ted analyses?     | Yes         |                  |                |                |              |
| 5. were al   | l samples received within holding time?<br>Note: Analysis, such as pH which should be conducted in<br>i.e, 15 minute hold time, are not included in this disucssic                                     |                   | Yes         |                  |                | Comments       | s/Resolution |
| Sample T     | urn Around Time (TAT)                                                                                                                                                                                  |                   |             |                  | <b>.</b>       |                | ~            |
| 6. Did the   | COC indicate standard TAT, or Expedited TAT?                                                                                                                                                           |                   | Yes         |                  | Visible white  | eout on CO     | C.           |
| Sample C     | <u>ooler</u>                                                                                                                                                                                           |                   |             |                  |                |                |              |
| 7. Was a s   | ample cooler received?                                                                                                                                                                                 |                   | Yes         |                  |                |                |              |
| 8. If yes, v | was cooler received in good condition?                                                                                                                                                                 |                   | Yes         |                  |                |                |              |
| 9. Was the   | e sample(s) received intact, i.e., not broken?                                                                                                                                                         |                   | Yes         |                  |                |                |              |
| 10. Were     | custody/security seals present?                                                                                                                                                                        |                   | No          |                  |                |                |              |
| 11. If yes,  | were custody/security seals intact?                                                                                                                                                                    |                   | NA          |                  |                |                |              |
|              | e sample received on ice? If yes, the recorded temp is 4°C,<br>Note: Thermal preservation is not required, if samples are<br>minutes of sampling<br>visible ice, record the temperature. Actual sample | e received w/i 15 | Yes         |                  |                |                |              |
| Sample C     | , <u>*</u>                                                                                                                                                                                             | <u> </u>          | _           |                  |                |                |              |
|              | queous VOC samples present?                                                                                                                                                                            |                   | No          |                  |                |                |              |
|              | OC samples collected in VOA Vials?                                                                                                                                                                     |                   | NA          |                  |                |                |              |
|              | head space less than 6-8 mm (pea sized or less)?                                                                                                                                                       |                   | NA          |                  |                |                |              |
|              | trip blank (TB) included for VOC analyses?                                                                                                                                                             |                   | NA          |                  |                |                |              |
|              | on-VOC samples collected in the correct containers?                                                                                                                                                    | ,                 | Yes         |                  |                |                |              |
|              | appropriate volume/weight or number of sample contain                                                                                                                                                  |                   | Yes         |                  |                |                |              |
| Field Lab    | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                  | iers conceted.    | 103         |                  |                |                |              |
|              | field sample labels filled out with the minimum info                                                                                                                                                   | rmation:          |             |                  |                |                |              |
|              | ample ID?                                                                                                                                                                                              | 111441011         | Yes         |                  |                |                |              |
|              | ate/Time Collected?                                                                                                                                                                                    |                   | Yes         | L                |                |                |              |
| Co           | ollectors name?                                                                                                                                                                                        |                   | Yes         |                  |                |                |              |
|              | <u>reservation</u>                                                                                                                                                                                     |                   |             |                  |                |                |              |
| 21. Does t   | the COC or field labels indicate the samples were pr                                                                                                                                                   | eserved?          | No          |                  |                |                |              |
|              | mple(s) correctly preserved?                                                                                                                                                                           |                   | NA          |                  |                |                |              |
| 24. Is lab   | filteration required and/or requested for dissolved m                                                                                                                                                  | etals?            | No          |                  |                |                |              |
| Multipha     | se Sample Matrix                                                                                                                                                                                       |                   |             |                  |                |                |              |
| 26. Does t   | he sample have more than one phase, i.e., multiphas                                                                                                                                                    | se?               | No          |                  |                |                |              |
| 27. If yes,  | does the COC specify which phase(s) is to be analy                                                                                                                                                     | zed?              | NA          |                  |                |                |              |
| Subcontra    | act Laboratory                                                                                                                                                                                         |                   |             |                  |                |                |              |
|              | mples required to get sent to a subcontract laborator                                                                                                                                                  | v?                | No          |                  |                |                |              |
|              | subcontract laboratory specified by the client and if                                                                                                                                                  | ~                 |             | Subcontract Lab  | v NA           |                |              |
|              |                                                                                                                                                                                                        |                   |             | succontinuer Euc | , 141 <b>1</b> |                |              |
| Client in    | struction                                                                                                                                                                                              |                   |             |                  |                |                |              |
|              |                                                                                                                                                                                                        |                   |             |                  |                |                |              |
|              |                                                                                                                                                                                                        |                   |             |                  |                |                |              |
|              |                                                                                                                                                                                                        |                   |             |                  |                |                |              |
|              |                                                                                                                                                                                                        |                   |             |                  |                |                |              |
|              |                                                                                                                                                                                                        |                   |             |                  |                |                |              |
|              |                                                                                                                                                                                                        |                   |             |                  |                |                |              |
|              |                                                                                                                                                                                                        |                   |             |                  |                |                |              |
|              |                                                                                                                                                                                                        |                   |             |                  |                |                |              |

Signature of client authorizing changes to the COC or sample disposition.



# **APPENDIX E**

NMOCD Correspondence

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 305537

### **QUESTIONS**

| Operator:                  | OGRID:                                     |
|----------------------------|--------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                     |
| One Lincoln Centre         | Action Number:                             |
| Dallas, TX 75240           | 305537                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

| Prerequisites    |                                                    |  |  |  |
|------------------|----------------------------------------------------|--|--|--|
| Incident ID (n#) | nAPP2332849245                                     |  |  |  |
| Incident Name    | NAPP2332849245 CHARLIE SWEENY FED TANK BATTERY @ 0 |  |  |  |
| Incident Type    | Produced Water Release                             |  |  |  |
| Incident Status  | Initial C-141 Approved                             |  |  |  |

| Location of Release Source |                                 |  |  |  |
|----------------------------|---------------------------------|--|--|--|
| Site Name                  | CHARLIE SWEENY FED TANK BATTERY |  |  |  |
| Date Release Discovered    | 11/24/2023                      |  |  |  |
| Surface Owner              | Private                         |  |  |  |

| Sampling Event General Information                                                              |                       |  |  |  |
|-------------------------------------------------------------------------------------------------|-----------------------|--|--|--|
| Please answer all the questions in this group.                                                  |                       |  |  |  |
| What is the sampling surface area in square feet                                                | 6,260                 |  |  |  |
| What is the estimated number of samples that will be gathered                                   | 38                    |  |  |  |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 01/23/2024            |  |  |  |
| Time sampling will commence                                                                     | 09:00 AM              |  |  |  |
| Please provide any information necessary for observers to contact samplers                      | n/a                   |  |  |  |
| Please provide any information necessary for navigation to sampling site                        | 32.254637 -104.119618 |  |  |  |

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 305537

# **CONDITIONS**

| Operator:                  | OGRID:                                     |
|----------------------------|--------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                     |
| One Lincoln Centre         | Action Number:                             |
| Dallas, TX 75240           | 305537                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

| Created By |                                                                                                                                                                                                       | Condition<br>Date |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| j_touchet  | Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted. | 1/19/2024         |

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 305542

### **QUESTIONS**

| Operator:                  | OGRID:                                     |
|----------------------------|--------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                     |
| One Lincoln Centre         | Action Number:                             |
| Dallas, TX 75240           | 305542                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

| Prerequisites    |                                                    |  |  |  |  |
|------------------|----------------------------------------------------|--|--|--|--|
| Incident ID (n#) | nAPP2332849245                                     |  |  |  |  |
| Incident Name    | NAPP2332849245 CHARLIE SWEENY FED TANK BATTERY @ 0 |  |  |  |  |
| Incident Type    | Produced Water Release                             |  |  |  |  |
| Incident Status  | Initial C-141 Approved                             |  |  |  |  |

| Location of Release Source |                                 |  |  |  |  |  |  |
|----------------------------|---------------------------------|--|--|--|--|--|--|
| Site Name                  | CHARLIE SWEENY FED TANK BATTERY |  |  |  |  |  |  |
| Date Release Discovered    | 11/24/2023                      |  |  |  |  |  |  |
| Surface Owner              | Private                         |  |  |  |  |  |  |

| Sampling Event General Information                                                              |                       |  |
|-------------------------------------------------------------------------------------------------|-----------------------|--|
| Please answer all the questions in this group.                                                  |                       |  |
| What is the sampling surface area in square feet                                                | 6,260                 |  |
| What is the estimated number of samples that will be gathered                                   | 38                    |  |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 01/24/2024            |  |
| Time sampling will commence                                                                     | 09:00 AM              |  |
| Please provide any information necessary for observers to contact samplers                      | n/a                   |  |
| Please provide any information necessary for navigation to sampling site                        | 32.254637 -104.119618 |  |

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 305542

# **CONDITIONS**

| Operator:                  | OGRID:                                     |
|----------------------------|--------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                     |
| One Lincoln Centre         | Action Number:                             |
| Dallas, TX 75240           | 305542                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

| Created By |                                                                                                                                                                                                       | Condition<br>Date |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| j_touche   | Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted. | 1/19/2024         |

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

QUESTIONS

Action 305550

### **QUESTIONS**

| Operator:                  | OGRID:                                     |
|----------------------------|--------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                     |
| One Lincoln Centre         | Action Number:                             |
| Dallas, TX 75240           | 305550                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

| Prerequisites    |                                                    |
|------------------|----------------------------------------------------|
| Incident ID (n#) | nAPP2332849245                                     |
| Incident Name    | NAPP2332849245 CHARLIE SWEENY FED TANK BATTERY @ 0 |
| Incident Type    | Produced Water Release                             |
| Incident Status  | Initial C-141 Approved                             |

| Location of Release Source                |            |
|-------------------------------------------|------------|
| Site Name CHARLIE SWEENY FED TANK BATTERY |            |
| Date Release Discovered                   | 11/24/2023 |
| Surface Owner                             | Private    |

| Sampling Event General Information                                                              |                       |  |
|-------------------------------------------------------------------------------------------------|-----------------------|--|
| Please answer all the questions in this group.                                                  |                       |  |
| What is the sampling surface area in square feet                                                | 6,260                 |  |
| What is the estimated number of samples that will be gathered                                   | 38                    |  |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 01/25/2024            |  |
| Time sampling will commence                                                                     | 09:00 AM              |  |
| Please provide any information necessary for observers to contact samplers                      | n/a                   |  |
| Please provide any information necessary for navigation to sampling site                        | 32.254637 -104.119618 |  |

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 305550

# **CONDITIONS**

| Operator:                  | OGRID:                                     |
|----------------------------|--------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                     |
| One Lincoln Centre         | Action Number:                             |
| Dallas, TX 75240           | 305550                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

| Created By |                                                                                                                                                                                                       | Condition<br>Date |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| j_touche   | Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted. | 1/19/2024         |

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

QUESTIONS

Action 305557

# **QUESTIONS**

| Operator:                  | OGRID:                                     |
|----------------------------|--------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                     |
| One Lincoln Centre         | Action Number:                             |
| Dallas, TX 75240           | 305557                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

| Prerequisites    |                                                    |
|------------------|----------------------------------------------------|
| Incident ID (n#) | nAPP2332849245                                     |
| Incident Name    | NAPP2332849245 CHARLIE SWEENY FED TANK BATTERY @ 0 |
| Incident Type    | Produced Water Release                             |
| Incident Status  | Initial C-141 Approved                             |

| Location of Release Source                |            |
|-------------------------------------------|------------|
| Site Name CHARLIE SWEENY FED TANK BATTERY |            |
| Date Release Discovered                   | 11/24/2023 |
| Surface Owner                             | Private    |

| Sampling Event General Information                                                              |                       |
|-------------------------------------------------------------------------------------------------|-----------------------|
| Please answer all the questions in this group.                                                  |                       |
| What is the sampling surface area in square feet                                                | 6,260                 |
| What is the estimated number of samples that will be gathered                                   | 38                    |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 01/26/2024            |
| Time sampling will commence                                                                     | 09:00 AM              |
| Please provide any information necessary for observers to contact samplers                      | n/a                   |
| Please provide any information necessary for navigation to sampling site                        | 32.254637 -104.119618 |

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 305557

# **CONDITIONS**

| Operator:                  | OGRID:                                     |
|----------------------------|--------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                     |
| One Lincoln Centre         | Action Number:                             |
| Dallas, TX 75240           | 305557                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

| Created By |                                                                                                                                                                                                       | Condition<br>Date |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| j_touche   | Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted. | 1/19/2024         |

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

QUESTIONS

Action 305566

# **QUESTIONS**

| Operator:                  | OGRID:                                     |
|----------------------------|--------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                     |
| One Lincoln Centre         | Action Number:                             |
| Dallas, TX 75240           | 305566                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

| Prerequisites    |                                                    |
|------------------|----------------------------------------------------|
| Incident ID (n#) | nAPP2332849245                                     |
| Incident Name    | NAPP2332849245 CHARLIE SWEENY FED TANK BATTERY @ 0 |
| Incident Type    | Produced Water Release                             |
| Incident Status  | Initial C-141 Approved                             |

| Location of Release Source |                                 |
|----------------------------|---------------------------------|
| Site Name                  | CHARLIE SWEENY FED TANK BATTERY |
| Date Release Discovered    | 11/24/2023                      |
| Surface Owner              | Private                         |

| Sampling Event General Information                                                              |                       |
|-------------------------------------------------------------------------------------------------|-----------------------|
| Please answer all the questions in this group.                                                  |                       |
| What is the sampling surface area in square feet                                                | 6,260                 |
| What is the estimated number of samples that will be gathered                                   | 38                    |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 01/29/2024            |
| Time sampling will commence                                                                     | 09:00 AM              |
| Please provide any information necessary for observers to contact samplers                      | n/a                   |
| Please provide any information necessary for navigation to sampling site                        | 32.254637 -104.119618 |

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 305566

# **CONDITIONS**

| Operator:                  | OGRID:                                     |
|----------------------------|--------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                     |
| One Lincoln Centre         | Action Number:                             |
| Dallas, TX 75240           | 305566                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

| Created By |                                                                                                                                                                                                       | Condition<br>Date |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| j_touche   | Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted. | 1/19/2024         |

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

QUESTIONS

Action 305570

### **QUESTIONS**

| Operator:                  | OGRID:                                     |
|----------------------------|--------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                     |
| One Lincoln Centre         | Action Number:                             |
| Dallas, TX 75240           | 305570                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

| Prerequisites    |                                                    |
|------------------|----------------------------------------------------|
| Incident ID (n#) | nAPP2332849245                                     |
| Incident Name    | NAPP2332849245 CHARLIE SWEENY FED TANK BATTERY @ 0 |
| Incident Type    | Produced Water Release                             |
| Incident Status  | Initial C-141 Approved                             |

| Location of Release Source                |            |
|-------------------------------------------|------------|
| Site Name CHARLIE SWEENY FED TANK BATTERY |            |
| Date Release Discovered                   | 11/24/2023 |
| Surface Owner                             | Private    |

| Sampling Event General Information                                                              |                       |  |
|-------------------------------------------------------------------------------------------------|-----------------------|--|
| Please answer all the questions in this group.                                                  |                       |  |
| What is the sampling surface area in square feet                                                | 6,260                 |  |
| What is the estimated number of samples that will be gathered                                   | 38                    |  |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 01/30/2024            |  |
| Time sampling will commence                                                                     | 09:00 AM              |  |
| Please provide any information necessary for observers to contact samplers                      | n/a                   |  |
| Please provide any information necessary for navigation to sampling site                        | 32.254637 -104.119618 |  |

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 305570

# **CONDITIONS**

| Operator:                  | OGRID:                                     |
|----------------------------|--------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                     |
| One Lincoln Centre         | Action Number:                             |
| Dallas, TX 75240           | 305570                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

| Created By |                                                                                                                                                                                                       | Condition<br>Date |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| j_touche   | Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted. | 1/19/2024         |

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 355861

# **QUESTIONS**

| Operator:                  | OGRID:                                     |
|----------------------------|--------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                     |
| One Lincoln Centre         | Action Number:                             |
| Dallas, TX 75240           | 355861                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

| Prerequisites                   |                                                    |  |
|---------------------------------|----------------------------------------------------|--|
| Incident ID (n#) nAPP2332849245 |                                                    |  |
| Incident Name                   | NAPP2332849245 CHARLIE SWEENY FED TANK BATTERY @ 0 |  |
| Incident Type                   | Produced Water Release                             |  |
| Incident Status                 | Initial C-141 Approved                             |  |

| Location of Release Source                |            |  |
|-------------------------------------------|------------|--|
| Site Name CHARLIE SWEENY FED TANK BATTERY |            |  |
| Date Release Discovered                   | 11/24/2023 |  |
| Surface Owner                             | Private    |  |

| Sampling Event General Information                                                              |                          |  |
|-------------------------------------------------------------------------------------------------|--------------------------|--|
| Please answer all the questions in this group.                                                  |                          |  |
| What is the sampling surface area in square feet                                                | 800                      |  |
| What is the estimated number of samples that will be gathered                                   | 4                        |  |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 06/21/2024               |  |
| Time sampling will commence                                                                     | 09:00 AM                 |  |
| Please provide any information necessary for observers to contact samplers                      | N/A                      |  |
| Please provide any information necessary for navigation to sampling site                        | : 32.254637, -104.119618 |  |

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 355861

# **CONDITIONS**

| Operator:                  | OGRID:                                     |
|----------------------------|--------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                     |
| One Lincoln Centre         | Action Number:                             |
| Dallas, TX 75240           | 355861                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

| Created By |                                                                                                                                                                                                       | Condition<br>Date |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| j_touchet  | Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted. | 6/19/2024         |

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III
1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 356832

| Q                                                                                               | UESTIONS               |                                            |
|-------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------|
| Operator:  MATADOR PRODUCTION COMPANY  One Lincoln Centre                                       |                        | OGRID: 228937 Action Number:               |
| Dallas, TX 75240                                                                                |                        | 356832<br>Action Type:                     |
|                                                                                                 |                        | [NOTIFY] Notification Of Sampling (C-141N) |
| QUESTIONS                                                                                       |                        |                                            |
| Prerequisites                                                                                   |                        |                                            |
| Incident ID (n#)                                                                                | nAPP2332849245         |                                            |
| Incident Name                                                                                   | NAPP2332849245 CHA     | RLIE SWEENY FED TANK BATTERY @ 0           |
| Incident Type                                                                                   | Produced Water Rele    | ase                                        |
| Incident Status                                                                                 | Initial C-141 Approved | l                                          |
|                                                                                                 |                        |                                            |
| Location of Release Source                                                                      |                        |                                            |
| Site Name                                                                                       | CHARLIE SWEENY FED     | TANK BATTERY                               |
| Date Release Discovered                                                                         | 11/24/2023             |                                            |
| Surface Owner                                                                                   | Private                |                                            |
|                                                                                                 |                        |                                            |
| Sampling Event General Information  Please answer all the questions in this group.              |                        |                                            |
| What is the sampling surface area in square feet                                                | 6,260                  |                                            |
| What is the estimated number of samples that will be gathered                                   | 4                      |                                            |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 06/24/2024             |                                            |
| Time sampling will commence                                                                     | 09:00 AM               |                                            |
| Warning: Notification can not be less than two business days prior to conducting final sampling | ıg.                    |                                            |
| Please provide any information necessary for observers to contact samplers                      | N/A                    |                                            |
| Please provide any information necessary for navigation to sampling site                        | 32.254637, -104.1196   | 18                                         |

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 356832

# **CONDITIONS**

| Operator:                  | OGRID:                                     |
|----------------------------|--------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                     |
| One Lincoln Centre         | Action Number:                             |
| Dallas, TX 75240           | 356832                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

| Created<br>By |                                                                                                                                                                                                       | Condition<br>Date |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| c_talley      | Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted. | 6/24/2024         |

From: Wells, Shelly, EMNRD

To: Ashley Giovengo; clinton.talley@matadorresources.com; Jason Touchet
Cc: Cole Burton; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD

Subject: RE: [EXTERNAL] 48-hour Confirmation Sampling Notification - Matador Production Company - Charlie Sweeney

Fed TB - nAPP2332849245

**Date:** Monday, June 24, 2024 1:53:43 PM

Attachments: image001.png image002.png

image002.png image003.png

# [ \*\*EXTERNAL EMAIL\*\*]

Good afternoon Ashley,

Due to the OCD Permitting connectivity issues of 6/20/24-Present, a variance to the two business day notification for confirmation sampling is approved for NAPP2332849245 CHARLIE SWEENY FED TANK BATTERY for 6/24/24. Please submit a C-141N for these samples when possible (it can be post-dated). Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

Shelly Wells \* Environmental Specialist-Advanced

**Environmental Bureau** 

**EMNRD-Oil Conservation Division** 

1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520|Shelly.Wells@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/

From: Ashley Giovengo <agiovengo@ensolum.com>

**Sent:** Monday, June 24, 2024 1:06 PM

**To:** Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; clinton.talley@matadorresources.com; Jason Touchet <jason.touchet@matadorresources.com>

**Cc:** Cole Burton <cburton@ensolum.com>

**Subject:** [EXTERNAL] 48-hour Confirmation Sampling Notification - Matador Production Company - Charlie Sweeney Fed TB - nAPP2332849245

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

A representative from Matador Production Company (Clinton Talley), tried to extend the 48-

hour confirmation sampling notification for the Charlie Sweeney site via the NMOCD web portal, however the portal seems to be experiencing issues or is currently down for maintenance. Please see the confirmation sampling details for the Charlie Sweeney site below.

**When:** 06/24/2024 @ 09:00 am MST **Incident Number:** nAPP2332849245

**Where**: P-31-23S-28E (32.254637,-104.119618)

Number of Samples: 2 Spill Sq. Footage: 400 sq. ft.

**Additional Information:** N/A

**Additional Instructions:** 32.254637, -104.119618

# Thanks,



"Your authenticity is your superpower." - Unknown

From: <u>Clinton Talley</u>
To: <u>Ashley Giovengo</u>

Cc: <u>Jason Touchet; Cole Burton</u>

Subject: FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 316745

**Date:** Friday, May 17, 2024 2:04:31 PM

# [ \*\*EXTERNAL EMAIL\*\*]

Well, at least we have some room...

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

**Sent:** Friday, May 17, 2024 2:01 PM

**To:** Clinton Talley <clinton.talley@matadorresources.com>

Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 316745

### \*\*EXTERNAL EMAIL\*\*

To whom it may concern (c/o Clint Talley for MATADOR PRODUCTION COMPANY),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2332849245, for the following reasons:

 Remediation closure denied. OCD will accept the background chloride limit of 1,328 mg/kg. Continue remediating the open excavation to these standards and submit updated remediation closure report to the OCD by 7/16/24.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 316745.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you, Shelly Wells Environmental Specialist-A 505-469-7520 Shelly.Wells@emnrd.nm.gov

# New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

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<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

QUESTIONS

Action 378967

### **QUESTIONS**

| Operator:                  | OGRID:                                     |
|----------------------------|--------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                     |
| One Lincoln Centre         | Action Number:                             |
| Dallas, TX 75240           | 378967                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

| Prerequisites    |                                                    |
|------------------|----------------------------------------------------|
| Incident ID (n#) | nAPP2332849245                                     |
| Incident Name    | NAPP2332849245 CHARLIE SWEENY FED TANK BATTERY @ 0 |
| Incident Type    | Produced Water Release                             |
| Incident Status  | Initial C-141 Approved                             |

| Location of Release Source                |            |
|-------------------------------------------|------------|
| Site Name CHARLIE SWEENY FED TANK BATTERY |            |
| Date Release Discovered                   | 11/24/2023 |
| Surface Owner                             | Private    |

| Sampling Event General Information                                                              |                        |
|-------------------------------------------------------------------------------------------------|------------------------|
| Please answer all the questions in this group.                                                  |                        |
| What is the sampling surface area in square feet                                                | 6,647                  |
| What is the estimated number of samples that will be gathered                                   | 5                      |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 09/03/2024             |
| Time sampling will commence                                                                     | 09:00 AM               |
| Please provide any information necessary for observers to contact samplers                      | N/A                    |
| Please provide any information necessary for navigation to sampling site                        | 32.254637, -104.119618 |

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 378967

# CONDITIONS

| Operator:                  | OGRID:                                     |
|----------------------------|--------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                     |
| One Lincoln Centre         | Action Number:                             |
| Dallas, TX 75240           | 378967                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

| Created By | Condition                                                                                                                                                                                             | Condition<br>Date |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| j_touchet  | Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted. | 8/28/2024         |



# **APPENDIX F**

Referenced Reports

# Received by OCD: 9/18/2024 9:56:21 AM

1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Page 319 of 874

Form C-141

Revised August 24, 2018

Submit to appropriate OCD District office

| Incident ID    | NAB1906754904 |
|----------------|---------------|
| District RP    | 2RP-5289      |
| Facility ID    | fAB1906754729 |
| Application ID | pAB1906754448 |

# **Release Notification**

# **Responsible Party**

| Responsible Party: Matador Resources                                  | OGRID: 228937                              |
|-----------------------------------------------------------------------|--------------------------------------------|
| Contact Name: John Hurt                                               | Contact Telephone: 972-371-5200            |
| Contact email: JHurt@matadorresources.com                             | Incident # (assigned by OCD) NAB1906754904 |
| Contact mailing address 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240 |                                            |

# **Location of Release Source**

Latitude 32.2219634

Longitude -104.0504256 (NAD 83 in decimal degrees to 5 decimal places)

| Site Name: Janie Conner Tank Battery  Date Release Discovered 2/19/2019 |         | Site Type: Tank Battery |       |        |  |
|-------------------------------------------------------------------------|---------|-------------------------|-------|--------|--|
|                                                                         |         | API# (if applicable)    |       |        |  |
| Unit Letter                                                             | Section | Township                | Range | County |  |

Nature and Volume of Release

A 14 24S 28E EDDY

Surface Owner: 

State Federal Tribal Private (Name: McDonald)

| Crude Oil                                         | Volume Released (bbls) 24                                                      | Volume Recovered (bbls) 6               |
|---------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------|
| Produced Water                                    | Volume Released (bbls)                                                         | Volume Recovered (bbls)                 |
|                                                   | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ⊠ Yes □ No                              |
| Condensate                                        | Volume Released (bbls)                                                         | Volume Recovered (bbls)                 |
| ☐ Natural Gas                                     | Volume Released (Mcf)                                                          | Volume Recovered (Mcf)                  |
| Other (describe)                                  | Volume/Weight Released (provide units)                                         | Volume/Weight Recovered (provide units) |
| Cause of Release: Equip  ** 24 bbls of a crude oi | oment Failure – Fire Tube on Heater Treater  I and water mixture               |                                         |

| Incident ID    | NAB19067539640 of 87 |
|----------------|----------------------|
| District RP    | 2RP-5289             |
| Facility ID    | fAB1906754729        |
| Application ID | pAB1906754448        |

| Was this a major release as defined by 19.15.29.7(A) NMAC?  ☐ Yes ☒ No                          | If YES, for what reason(s) does the responsible party consider this a major release? <25 bbls  otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                 | 19 to NMOCD District II via email                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                 | Initial Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| The responsible                                                                                 | party must undertake the following actions immediately unless they could create a safety hazard that would result in injury                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| The source of the rele                                                                          | ease has been stopped.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| The impacted area ha                                                                            | s been secured to protect human health and the environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Released materials ha                                                                           | we been contained via the use of berms or dikes, absorbent pads, or other containment devices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| All free liquids and re                                                                         | ecoverable materials have been removed and managed appropriately.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                 | AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                 | at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| regulations all operators are<br>public health or the environr<br>failed to adequately investig | rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws |
| Printed Name:                                                                                   | John Hurt Title:RES Specialist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Signature:                                                                                      | Date: 3/4/19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| email: JHurt@r                                                                                  | natadorresources.com Telephone:972-371-5200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| OCD Only Received by:                                                                           | Date: 3/8/19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

# Hamlet, Robert, EMNRD

From: Hamlet, Robert, EMNRD

**Sent:** Monday, March 11, 2019 7:59 AM

**To:** 'Melodie Sanjari'

Cc: Venegas, Victoria, EMNRD; Bratcher, Mike, EMNRD; Austin Weyant; Heather Patterson; John Hurt

**Subject:** OCD tracking number - Janie Conner Tank Battery (2RP-5289) 2-19-2019

RE: Matador Resources \* Janie Conner Tank Battery \* DOR: 02/19/2019

All,

The OCD tracking number for this release event is 2RP-5289.

Thank you,

Robert J Hamlet
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St., Artesia NM 88210
(575) 840-5963
Robert.Hamlet@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

**From:** Bustamante, Amalia, EMNRD **Sent:** Friday, March 8, 2019 3:22 PM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Cc: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>

Subject: RE: Janie Conner Tank Battery Initial C141

# 2RP-5289

# Amalia Bustamante

**Oil Conservation Division-District II** 

**From:** Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>

Sent: Monday, March 4, 2019 12:03 PM

**To:** Bustamante, Amalia, EMNRD < <u>Amalia.Bustamante@state.nm.us</u>>

Cc: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>; Venegas, Victoria, EMNRD < Victoria. Venegas@state.nm.us>

Subject: FW: Janie Conner Tank Battery Initial C141

From: Melodie Sanjari < melodie.sanjari@soudermiller.com >

Sent: Monday, March 4, 2019 10:53 AM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>; Venegas, Victoria, EMNRD

< <u>Victoria.Venegas@state.nm.us</u>>; Bratcher, Mike, EMNRD < <u>mike.bratcher@state.nm.us</u>>; Bustamante, Amalia, EMNRD < Amalia.Bustamante@state.nm.us>

 $\textbf{Cc:} \ Austin \ Weyant < \underline{austin.weyant@soudermiller.com} >; \ Heather \ Patterson < \underline{heather.patterson@soudermiller.com} >; \\$ 

John Hurt <JHurt@matadorresources.com>

Subject: [EXT] Janie Conner Tank Battery Initial C141

To Whom it May Concern,

Please find the attached, signed Initial C141 for the release at the Janie Conner Tank Battery (24 Hour Notification sent on 2/20/2019).

If you have any questions or concerns please don't hesitate to reach out.

Thank you.

# Melodie Sanjari

Staff Scientist



### Souder, Miller & Associates

Engineering ◆ Environmental ◆ Surveying 201 S Halagueno Street Carlsbad, NM 88220 www.soudermiller.com (574) 370-9782 (cell) (505) 299-0942 Ext. 2204







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# **Bratcher, Mike, EMNRD**

From: Melodie Sanjari <melodie.sanjari@soudermiller.com>

**Sent:** Monday, April 15, 2019 1:16 PM

To: Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Venegas, Victoria, EMNRD

**Cc:** Austin Weyant; Heather Patterson; John Hurt

**Subject:** [EXT] Janie Conner Production Battery Background Levels

# Good Morning All,

As per our discussion at the NMOCD District II office on 4/15/2019, we will begin remediation on the release associated with the Janie Conner using our pre oil and gas baseline backgrounds from the same location, which averages out to 1200 mg/kg chloride.

We will also be packaging and submitting the data for the area's background soil types.

Thank you all so much for your time today

Best,

Melodie Sanjari

Get Outlook for Android

# Hamlet, Robert, EMNRD

From: Melodie Sanjari <melodie.sanjari@soudermiller.com>

Sent: Wednesday, February 20, 2019 2:20 PM

To: Hamlet, Robert, EMNRD; Venegas, Victoria, EMNRD; Bratcher, Mike, EMNRD

**Cc:** John Hurt; Austin Weyant

**Subject:** [EXT] Janie Conner Tank Battery 24 Hour Notification

# **Responsible Party:**

**Matador Resources Company** 

OGRID: 228937

5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

John Hurt

JHurt@matadorresources.com

972-371-5200

#### Location:

MATADOR PRODUCTION COMPANY

Janie Conner Tank Battery UL:A S: 14 T24S R28E API: 30-015-43463

Facility Type: Tank Battery

GPS Location: 32.2219634 -104.0504256

**Surface Land Owner:** 

Cause of Release: Equipment Failure - Fire Tube on Heater Treater

Release Material: Produced Water & Crude Oil

Pathway: The release occurred around heater treated and flowed west to the battery containment and travelled south

off the pad into a San Mateo pipeline ROW

Initial Action: Source was eliminated and surficial material was recovered

Date of Discovery: 2/19/2019

Estimated surface release area: 300 square yards

Estimated Volume loss: Predicted to be less than 25 bbls

Estimated Volume Recovered: vac truck responded; approx. 10 bbls

# Melodie Sanjari

Staff Scientist



# Souder, Miller & Associates

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# Hamlet, Robert, EMNRD

From: Melodie Sanjari <melodie.sanjari@soudermiller.com>

**Sent:** Monday, March 4, 2019 10:53 AM

To: Hamlet, Robert, EMNRD; Venegas, Victoria, EMNRD; Bratcher, Mike, EMNRD; Bustamante, Amalia,

**EMNRD** 

Cc: Austin Weyant; Heather Patterson; John Hurt Subject: [EXT] Janie Conner Tank Battery Initial C141

Attachments: Intial C141 Signed JC.pdf

To Whom it May Concern,

Please find the attached, signed Initial C141 for the release at the Janie Conner Tank Battery (24 Hour Notification sent on 2/20/2019).

If you have any questions or concerns please don't hesitate to reach out.

Thank you.

# Melodie Sanjari Staff Scientist



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# Hamlet, Robert, EMNRD

From: Melodie Sanjari <melodie.sanjari@soudermiller.com>

**Sent:** Tuesday, April 23, 2019 1:28 PM

To: Hamlet, Robert, EMNRD; Venegas, Victoria, EMNRD

**Cc:** Heather Patterson; John Hurt

**Subject:** [EXT] 48 Hour Closure Sampling Notice

# Good Morning All,

Per NMAC 19.15.29.12 (D)(1)a, this email is to inform all interested parties that SMA will be collecting closure samples beginning at approximately 8 a.m. on April 25<sup>th</sup>, 2019 on the Janie Conner Tank Battery location. This email will serve as our 48 hour notification. We will send an update if this time or date changes.

Thank you

# Melodie Sanjari

Staff Scientist



# Souder, Miller & Associates

Engineering ♦ Environmental ♦ Surveying 201 S Halagueno Street Carlsbad, NM 88220 www.soudermiller.com (574) 370-9782 (cell) (505) 299-0942 Ext. 2204







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# Venegas, Victoria, EMNRD

From: Melodie Sanjari < melodie.sanjari@soudermiller.com>

**Sent:** Wednesday, May 15, 2019 3:29 PM

To: Hamlet, Robert, EMNRD; Venegas, Victoria, EMNRD

**Cc:** John Hurt; Heather Patterson

**Subject:** [EXT] RE: Janie Conner Tank Battery Closure Report 2RP-5289

Good Afternoon All,

Please find the attached Closure Report associated with 2RP-5289; the Janie Conner Tank Battery. I know we discussed this one at length in person, if you have any questions or concerns please do not hesitate to reach out.

Have a lovely rest of your week!

# **Melodie Sanjari**

Staff Scientist



# Souder, Miller & Associates

Engineering ◆ Environmental ◆ Surveying 201 S Halagueno Street Carlsbad, NM 88220 www.soudermiller.com (574) 370-9782 (cell) (505) 299-0942 Ext. 2204







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May 14, 2019

#5E27960 - BG6

NMOCD District 2 811 S. First St. Artesia, NM 88210

SUBJECT: Remediation Closure Report for the Janie Conner Tank Battery Release (2RP-5289), Eddy County New Mexico

To Whom it May Concern:

On behalf of Matador Resources, Souder, Miller & Associates (SMA) has prepared this Remediation Closure Report that describes the remediation of a release of liquids related to oil and gas production activities at the Janie Conner Tank Battery. The site is in Unit A, Section 14, Township 24S, Range 28E, Eddy County, New Mexico, on private land. Figure 1 illustrates the vicinity and site location on an USGS 7.5-minute quadrangle map.

Table 1 summarizes release information and Closure Criteria.

|                           | Table 1: Release Information and Closure Criteria |                              |                                          |  |  |  |
|---------------------------|---------------------------------------------------|------------------------------|------------------------------------------|--|--|--|
| Name                      | Janie Conner Tank Battery                         | Company                      | Matador Resources                        |  |  |  |
| API Number                | N/A                                               | Location                     | 32.2219634, -104.0504256                 |  |  |  |
| Incident<br>Number        |                                                   | 2RP-5289                     |                                          |  |  |  |
| Estimated Date of Release | 2/19/2019                                         | Date<br>Reported to<br>NMOCD | 2/20/2019                                |  |  |  |
| Land Owner                | Private                                           | Reported To                  | NMOCD District II                        |  |  |  |
| Source of Release         | Equipment Failure at the Heater Treater           |                              |                                          |  |  |  |
| Released<br>Volume        | 24 bbls                                           | Released<br>Material         | Crude Oil w/ traces of<br>Produced Water |  |  |  |
| Recovered<br>Volume       | 6 bbls                                            | Net Release                  | 18 bbls                                  |  |  |  |
| NMOCD<br>Closure Criteria | <50 feet to groundwater                           |                              |                                          |  |  |  |
| SMA Response Dates        | 2/19/2019 4/2/2019 4/25/2019 4/26                 | /2019                        |                                          |  |  |  |

Page 2 of 5

# 1.0 Background

On February 19, 2019, a release was discovered at the Janie Conner Tank Battery due to equipment failure at the heater treater. The release traveled down surface lines to the west and eventually to the buried production pipeline to the buried pipeline right-of-way (ROW) directly south of location. Initial response activities were conducted by the operator, and included source elimination, site security and stabilization activities which led to the recovery six barrels of standing fluid that was disposed of at an NMOCD approved facility. Figures 1 and 2 illustrate the vicinity and site location, Figure 3 illustrates the release location. The C-141 form is included in Appendix A.

# 2.0 Site Information and Closure Criteria

The Janie Conner Tank Battery is located in Malaga, New Mexico on privately-owned land at an elevation of approximately 2981 feet above mean sea level (amsl).

Based upon New Mexico Office of the State Engineer (NMOSE) data (Appendix B), depth to groundwater in the area is estimated to be 35-40 feet below grade surface (bgs). There are five known water sources NMOSE ½-mile of the location, according to online water (https://gis.ose.state.nm.us/gisapps/ose pod locations/; accessed 2/22/2019) and the USGS online water well database. The nearest significant watercourse is an unnamed canal, located approximately 230 feet to the north. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it lies within a sensitive area as described in 19.15.29.12.C(4) NMAC; however, this does not change the NMOCD Closure Criteria Stands for this site.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC and NMOCD District II approved background chloride concentrations.

Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

# 3.0 Release Characterization and Remediation Activities

On February 19, 2019, SMA personnel arrived on site in response to the release associated with Janie Conner Tank Battery. SMA performed site delineation activities by collecting soil samples around the release site and throughout the visibly stained area. A total of three sample locations (L1-L3) were investigated using a hand-auger, to depths up to 2 feet bgs. A minimum of two samples were collected at each sampling location. A total of eight samples were collected for laboratory analysis of total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Table 3 itemizes the samples and field-screening results as well as identifying any variances from the typical specification of two samples per boring. Locations for initial samples are depicted on Figure 4A.

Because the site is located in an irrigated river valley which has been characterized by naturally high chloride concentrations in the past, SMA returned to the location to establish several background locations to document this trend. On April 2<sup>nd</sup>, SMA conducted a background sampling event, establishing four background sample locations up- and down-gradient of the site, to depths up to 10 and 12 feet bgs (JC, JC2, JC3 and JC4). Thirteen of the collected samples were submitted for laboratory analysis for total chloride using EPA Method 300.0. Resulting chloride concentrations varied from 130 mg/kg to 9900 mg/kg (Table 3 & Figure 3).

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Prior to the construction of the Janie Conner Tank Battery, SMA conducted a baseline sampling event for Matador Resources in late 2016. Three sample locations were established on undisturbed land during this sampling event (P1-P3; Figure 3) and returned the chloride concentrations of 170 mg/kg, 1600 mg/kg and 1800 mg/kg, respectively (Table 3). The data was a portion of a collective report on the Background Soil Data around Malaga/Loving, Eddy County, New Mexico that has been previously submitted to NMOCD in conjunction with other projects (Appendix F).

The data collected from the background and baseline sampling events was discussed in a meeting with NMOCD District II in Artesia, NM on April 15<sup>th</sup>, 2019. During the meeting, it was discussed that several soil types and soil type mixtures in the Loving and Malaga area will return high sodium chloride levels in the absence of oil and gas production activities. This is not only naturally occurring in several saline soil types in the area, but also a result of poor agricultural and irrigation practices in the area over the past century. This also explains why samples at different depths and different sample locations can range from such a low level to drastically higher. At the conclusion of the meeting, it was understood by SMA that NMOCD would accept an adjusted closure criteria of 1800 mg/kg for chloride reflective of the baseline samples collected prior to oil and gas activity at the location of the Janie Conner Tank Battery.

On April 25 and 26, 2019, SMA returned to the site to oversee the excavation and hydro excavation of contaminated soil. Any part of the release area what was within 2 feet of buried or surface pipelines was removed using hydro-excavation, as per Matador's safety policy. SMA guided the excavation activities by collecting confirmation soil samples for field screening. The walls and base were excavated until field screening results indicated that the NMOCD Closure Criteria specific to the location would be met. The area around sample location L1 was excavated to 3 feet bgs, while the remainder of the release area (represented by L2 and L3) was excavated to a depth of 2 feet bgs. NMOCD was notified on April 23, 2019 that closure samples were expected to be collected in two (2) business days.

The confirmation samples were collected from within the excavation in accordance with a systematic sampling approach detailed in Appendix C. This systematic method meets the EPAs data quality assessment standards (DQA) for composite sampling as defined by (Myers 1997). Confirmation samples were comprised of five-point composites of the base (BH1-BH4) and walls (SW1 – SW5).

Laboratory results indicated that the sample area represented by location BH2 exceeded the site-specific standard for chloride. On May 5, 2019, SMA returned to the location to collect another composite sample from the bottom of the excavation. No further excavation was required.

A total of nine samples were collected for laboratory analysis for total chloride using EPA Method 300.0; benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B; and motor, diesel and gasoline range organics (MRO, DRO, and GRO) by EPA Method 8015D. Laboratory samples were collected in accordance with the sampling protocol included in Appendix C. Samples were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico (Appendix D).

Figure 4B shows the extent of the excavation and confirmation sample locations. Laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D.

Contaminated soils were removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil was transported and disposed of at an NMOCD permitted disposal facility.

Page 4 of 5

# 4.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Melodie R. Sanjari at 574-370-9782 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES

Reviewed by:

Melodie Sanjari Staff Scientist

M. Janyani

Shawna Chubbuck Senior Scientist

Page 5 of 5

# **ATTACHMENTS:**

# Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map Figure 3: Background Sample Locations

Figure 4A: Initial Site and Sample Location Map

Figure 4B: Excavation and Confirmation Closure Sample Map

# Tables:

Table 2: NMOCD Closure Criteria Justification

Table 3: Summary of Sample Results

# **Appendices:**

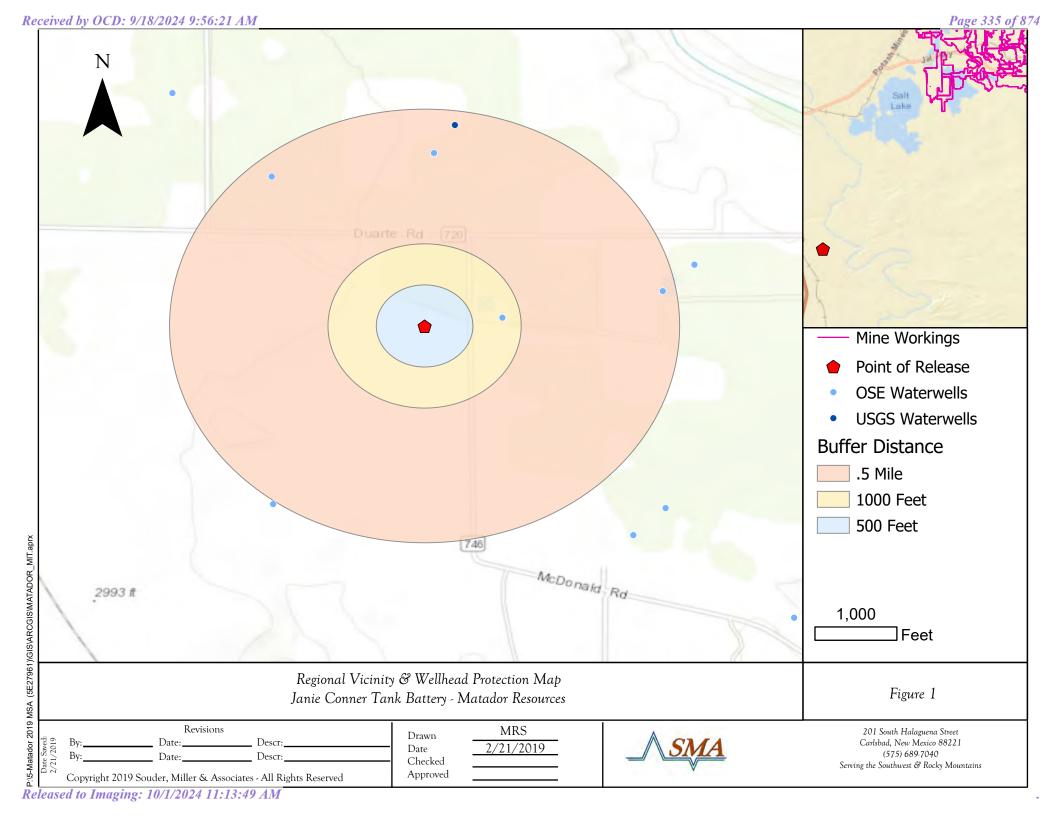
Appendix A: C141: Initial & Final Appendix B: NMOSE Wells Report Appendix C: VSP Sampling Protocol

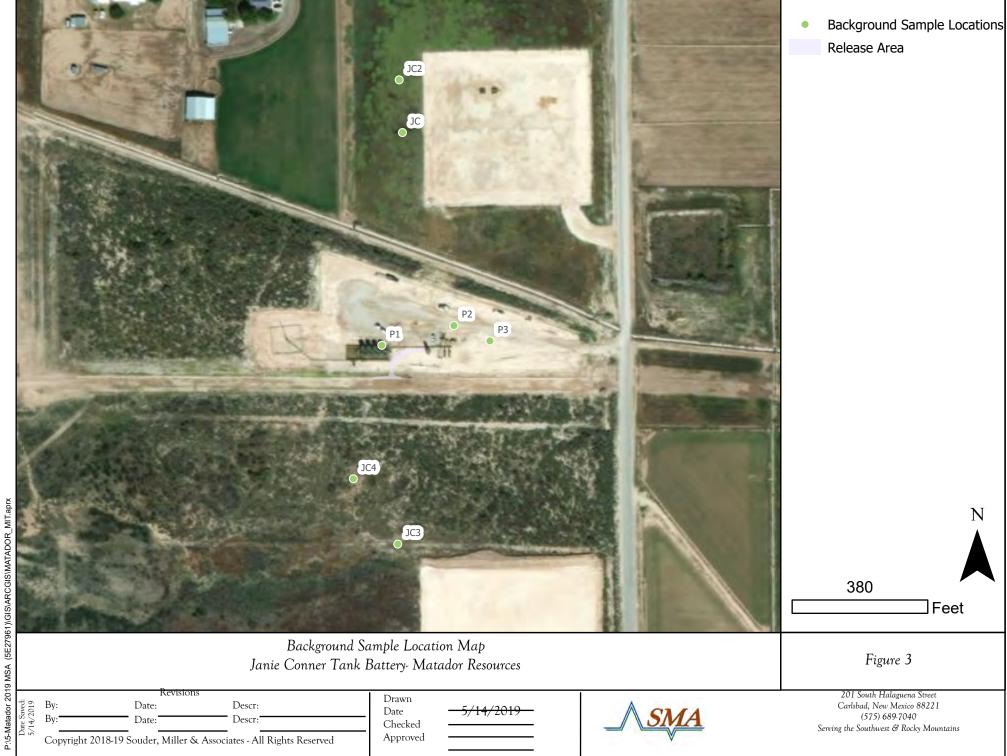
Appendix D: Laboratory Analytical Reports

Appendix E: Excavation Photo

Appendix F: Background Soil Data Report in the Loving/Malaga Area of Eddy County, NM

# **FIGURES**







# **TABLES**

| Site Information (19.15.29.11.A(2, 3, and 4) NMAC)               |       | Source/Notes                     |
|------------------------------------------------------------------|-------|----------------------------------|
| Depth to Groundwater (feet bgs)                                  | 35-40 | OSE                              |
| Hortizontal Distance From All Water Sources Within 1/2 Mile (ft) |       | 810; 2160; 2490; 2550 OSE & USGS |
| Hortizontal Distance to Nearest Significant Watercourse (ft)     | 230   | Canal to the North               |

| Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)                                                                                                                           |                                                                     |       |              |      |         |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------|--------------|------|---------|----|
| ·                                                                                                                                                                              | Closure Criteria (units in mg/kg)                                   |       |              |      |         |    |
| Depth to Groundwater                                                                                                                                                           | Chloride *numerical<br>limit or background,<br>whichever is greater | ТРН   | GRO +<br>DRO | ВТЕХ | Benzene |    |
| < 50' BGS                                                                                                                                                                      |                                                                     | 1800  | 100          |      | 50      | 10 |
| 51' to 100'                                                                                                                                                                    |                                                                     | 10000 | 2500         | 1000 | 50      | 10 |
| >100'                                                                                                                                                                          |                                                                     | 20000 | 2500         | 1000 | 50      | 10 |
| Surface Water                                                                                                                                                                  |                                                                     | if ye | s, then      |      |         |    |
| <300' from continuously flowing watercourse or other significant watercourse? <200' from lakebed, sinkhole or playa lake? Water Well or Water Source                           | yes<br>no                                                           |       |              |      |         |    |
| <500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?  <1000' from fresh water well or spring? | no<br>yes                                                           |       |              |      |         |    |
| Human and Other Areas                                                                                                                                                          |                                                                     | 600   | 100          |      | 50      | 10 |
| <300' from an occupied permanent residence, school, hospital, institution or church?                                                                                           | no                                                                  |       |              |      |         |    |
| within incorporated municipal boundaries or within a defined municipal fresh water well field?                                                                                 | no                                                                  |       |              |      |         |    |
| <100' from wetland?                                                                                                                                                            | no                                                                  |       |              |      |         |    |
| within area overlying a subsurface mine                                                                                                                                        | no                                                                  |       |              |      |         |    |
| within an unstable area?                                                                                                                                                       | no                                                                  |       |              |      |         |    |
| within a 100-year floodplain?                                                                                                                                                  | no                                                                  |       |              |      |         |    |

## Table 3: Summary of Sample Results

| Sample<br>ID | Sample<br>Date | Depth<br>(feet has) | Action    | BTEX     | Benzene  | GRO     | DRO      | MRO    | Total<br>TPH | CI-   |
|--------------|----------------|---------------------|-----------|----------|----------|---------|----------|--------|--------------|-------|
| טו           | Date           | (feet bgs)          |           | mg/Kg    | mg/Kg    | mg/Kg   | mg/Kg    | mg/Kg  | mg/Kg        | mg/Kg |
|              | NMOCD C        | losure Criteria     | l         | 50       | 10       | 10      | 00       |        | 100          | 1800  |
|              |                |                     | INI       | TIAL SAN | IPLE ANA | LYSIS   |          |        |              |       |
|              |                | 0.5                 | excavated | 0.801    | <0.023   | 23      | 310      | 99     | 432          | 900   |
| L1           |                | 1                   | excavated |          |          | <4.8    | 54       | <49    | 54           | 1100  |
|              |                | 2                   | excavated | -        |          | <4.9    | 120      | <50    | 120          | 1500  |
|              | 2/19/2019      | 0.5                 | excavated | 94.2     | 1.4      | 2600    | 7300     | 1800   | 11700        | 620   |
| L2           | 2/19/2019      | 1                   | excavated |          |          | 31      | 420      | 150    | 601          | 510   |
|              |                | 2                   | excavated |          |          | 5.4     | <9.9     | <49    | 5.2          | 1300  |
| L3           |                | 1                   | excavated | 608      | 29       | 12000   | 27,000   | 8,300  | 47300        | 98    |
| LJ           |                | 2                   | excavated |          |          | 5000    | 13,000   | 4,000  | 22000        | <60   |
|              | E              | BASELINE S          | AMPLE AN  | ALYSIS I | ROM BA   | CKGROU  | IND SOIL | REPORT |              |       |
| P1           |                | 0.5                 | -         |          |          | -       |          |        |              | 170   |
| P2           | 7/22/2016      | 0.5                 | 1         |          |          | -       |          |        |              | 1600  |
| P3           |                | 0.5                 | 1         | -        |          | I       |          | -      | -            | 1800  |
|              |                | F                   | RECENT BA | ACKGRO   | UND SAM  | PLE ANA | LYSIS    |        |              |       |
|              |                | 2                   |           |          |          |         |          |        |              | 990   |
| JC           |                | 6                   |           |          |          |         |          |        |              | 290   |
| 30           |                | 10                  |           |          |          | -       |          |        |              | 160   |
|              |                | 12                  | -         |          |          | ı       |          | -      |              | 130   |
|              |                | 2                   |           |          |          | 1       |          |        |              | 170   |
| JC2          |                | 4                   | 1         |          |          | 1       |          | -      |              | 190   |
|              | 4/2/2019       | 10                  |           |          |          |         |          |        |              | 100   |
|              | 4/2/2013       | 2                   |           |          |          |         |          |        |              | 4900  |
| JC3          |                | 4                   |           |          |          |         |          |        |              | 2200  |
| 303          |                | 6                   |           |          |          |         |          |        |              | 1400  |
|              |                | 10                  |           |          |          | -       |          |        |              | 750   |
|              |                | 2                   | -         |          |          | -       |          |        |              | 9900  |
| JC4          |                | 6                   |           |          |          |         |          |        |              | 4900  |
|              |                | 10                  |           |          |          |         |          |        |              | 3600  |
|              |                |                     | ONFIRMAT  |          |          |         |          | T      |              |       |
| BH1          | 4/25/2019      | 3                   | sample    | <0.22    | <0.024   | <4.9    | <8.8     | <44    | <57.7        | 470   |
| BH2          | 4/25/2019      | 2                   | sample    | <0.222   | <0.025   | <4.9    | <10      | <50    | <64.9        | 2300  |
|              | 5/5/2019       | 2                   | sample    |          |          |         |          |        |              | 1100  |
| BH3          | 4/25/2019      | 2                   | sample    | <0.217   | <0.024   | <4.8    | <9.2     | <46    | <60.0        | 1100  |
| BH4          | 4/26/2019      | 2                   | sample    | <0.225   | <0.025   | <5.0    | 31       | <47    | 31           | 1400  |
| SW1          |                | surface - 3         | sample    | <0.225   | <0.025   | < 5.0   | <9.7     | <48    | <62.7        | 150   |
| SW2          | 4/25/2019      | surface - 3         | sample    | <0.215   | <0.024   | <4.8    | < 9.4    | <47    | <61.2        | 530   |
| SW3          |                | surface - 2         | sample    | <0.217   | <0.024   | <4.8    | <8.7     | <44    | <57.5        | 370   |
| SW4          | 4/00/0040      | surface -2          | sample    | <0.225   | <0.025   | <5.0    | <9.8     | <49    | <63.8        | 550   |
| SW5          | 4/26/2019      | surface - 2         | sample    | <0.224   | <0.025   | <5.0    | <9.1     | <45    | <59.1        | 1200  |

<sup>&</sup>quot;--" = Not Analyzed

<sup>\* =</sup> per Reclamation Standard (19.15.29.13.D(1) NMAC)

# APPENDIX A C141: INITIAL & FINAL

# Received by OCD: 9/18/2024 9:56:21 AM

1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Page 344 of 874
Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

| Incident ID    |  |
|----------------|--|
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

# **Release Notification**

# **Responsible Party**

| Responsible Party: Matador Resources                                  | OGRID: 228937                   |
|-----------------------------------------------------------------------|---------------------------------|
| Contact Name: John Hurt                                               | Contact Telephone: 972-371-5200 |
| Contact email: JHurt@matadorresources.com                             | Incident # (assigned by OCD)    |
| Contact mailing address 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240 |                                 |

# **Location of Release Source**

Latitude 32.2219634

Longitude -104.0504256 (NAD 83 in decimal degrees to 5 decimal places)

| Site Name: Janie Conner Tank Battery  Date Release Discovered 2/19/2019 |  |  |  | Site Type: Tank Battery  API# (if applicable) |  |  |
|-------------------------------------------------------------------------|--|--|--|-----------------------------------------------|--|--|
|                                                                         |  |  |  |                                               |  |  |

| Unit Letter | Section | Township | Range | County |  |
|-------------|---------|----------|-------|--------|--|
| A           | 14      | 24S      | 28E   | EDDY   |  |

Surface Owner: State Federal Tribal Private (Name: McDonald)

# Nature and Volume of Release

| Crude Oil                                         | Volume Released (bbls) 24                                                      | Volume Recovered (bbls) 6               |
|---------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------|
| Produced Water                                    | Volume Released (bbls)                                                         | Volume Recovered (bbls)                 |
|                                                   | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ⊠ Yes □ No                              |
| Condensate                                        | Volume Released (bbls)                                                         | Volume Recovered (bbls)                 |
| ☐ Natural Gas                                     | Volume Released (Mcf)                                                          | Volume Recovered (Mcf)                  |
| Other (describe)                                  | Volume/Weight Released (provide units)                                         | Volume/Weight Recovered (provide units) |
| Cause of Release: Equip  ** 24 bbls of a crude oi | oment Failure – Fire Tube on Heater Treater  I and water mixture               |                                         |

| Ference by OCD: 9/18/2024 9: | 56:21 A State of New Mexico |
|------------------------------|-----------------------------|
| Page 2                       | Oil Conservation Division   |

| Incident ID    | Page 345 of 87 |
|----------------|----------------|
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

| Was this a major release as defined by 19.15.29.7(A) NMAC?  ☐ Yes ☑ No                                    | If YES, for what reason(s) does the responsible party consider this a major release? <25 bbls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                           | otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  19 to NMOCD District II via email                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| The responsible                                                                                           | Initial Response  party must undertake the following actions immediately unless they could create a safety hazard that would result in injury                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <ul><li>☑ The source of the rele</li><li>☑ The impacted area ha</li><li>☑ Released materials ha</li></ul> | ease has been stopped.  Is been secured to protect human health and the environment.  In the been contained via the use of berms or dikes, absorbent pads, or other containment devices.  It is coverable materials have been removed and managed appropriately.                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                           | d above have <u>not</u> been undertaken, explain why:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| has begun, please attach                                                                                  | AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.                                                                                                                                                                                                                                                                                             |
| regulations all operators are<br>public health or the environt<br>failed to adequately investig           | rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atte and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws |
| 1/0                                                                                                       | John Hurt Title: RES Specialist Date: 3/4/19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Signature:                                                                                                | natadorresources.com Telephone:972-371-5200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| OCD Only                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Received by:                                                                                              | Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

| Incident ID    |          |
|----------------|----------|
| District RP    | 2RP-5289 |
| Facility ID    |          |
| Application ID |          |

# **Release Notification**

# **Responsible Party**

| Responsible Party: Matador Resources                                | OGRID: 228937                   |  |
|---------------------------------------------------------------------|---------------------------------|--|
| Contact Name: John Hurt                                             | Contact Telephone: 972-371-5200 |  |
| Contact email: JHurt@matadorresources.com                           | Incident # (assigned by OCD)    |  |
| Contact mailing address 5400 LBJ Freeway, Suite 1500 Dalla TX 75240 | S,                              |  |

# **Location of Release Source**

Latitude 32.2219634

Longitude -104.0504256 (NAD 83 in decimal degrees to 5 decimal places)

|                  | Volume Released (bbls) 24                                                      | Volume Recovered (bbls) 6               |
|------------------|--------------------------------------------------------------------------------|-----------------------------------------|
| Produced Water   | Volume Released (bbls)                                                         | Volume Recovered (bbls)                 |
|                  | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ⊠ Yes □ No                              |
| Condensate       | Volume Released (bbls)                                                         | Volume Recovered (bbls)                 |
| Natural Gas      | Volume Released (Mcf)                                                          | Volume Recovered (Mcf)                  |
| Other (describe) | Volume/Weight Released (provide units)                                         | Volume/Weight Recovered (provide units) |

| 73    |     | -   |                  | 20  | _   |
|-------|-----|-----|------------------|-----|-----|
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| Incident ID    |          |
|----------------|----------|
| District RP    | 2RP-5289 |
| Facility ID    |          |
| Application ID |          |

| 19.15.29.7(A) NMAC?  ☐ Yes ☒ No                                                                                                                                                                                                                      | If YES, for what reason(s) does the responsible party consider this a major release? <25 bbls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| If YES, was immediate n<br>Yes, by SMA on 2/20/20                                                                                                                                                                                                    | notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  19 to NMOCD District II via email                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                      | Initial Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| The responsible                                                                                                                                                                                                                                      | party must undertake the following actions immediately unless they could create a safety hazard that would result in injury                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ☐ The source of the rel                                                                                                                                                                                                                              | ease has been stopped.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                      | as been secured to protect human health and the environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Released materials h                                                                                                                                                                                                                                 | ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| All free liquids and r                                                                                                                                                                                                                               | ecoverable materials have been removed and managed appropriately.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| has begun, please attach                                                                                                                                                                                                                             | AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred nt area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| has begun, please attach<br>within a lined containme<br>I hereby certify that the info<br>regulations all operators are<br>public health or the environ<br>failed to adequately investig                                                             | a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| has begun, please attach within a lined containme  I hereby certify that the inforegulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of                                                | a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred nt area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.  Transition given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws  John Hurt Title: RES Specialist                |
| has begun, please attach within a lined containme  I hereby certify that the inforegulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations.                            | a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred nt area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.  Transition given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws  John Hurt Title: RES Specialist                |
| has begun, please attach within a lined containme  I hereby certify that the inforegulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations.  Printed Name:  Signature: | a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred nt area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.  branching given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws                                                  |
| has begun, please attach within a lined containme  I hereby certify that the inforegulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations.  Printed Name:  Signature: | a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred nt area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.  Transition given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws  John Hurt Title: RES Specialist  Date: S/141/9 |

|  | Page | 348 | of | 87 | 4 |
|--|------|-----|----|----|---|
|  |      |     |    |    |   |

| Incident ID    |          |
|----------------|----------|
| District RP    | 2RP-5289 |
| Facility ID    |          |
| Application ID |          |

# Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

| What is the shallowest depth to groundwater beneath the area affected by the release?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 35-40 (ft bgs)          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Did this release impact groundwater or surface water?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ☐ Yes ⊠ No              |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ⊠ Yes □ No              |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ☐ Yes ⊠ No              |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ☐ Yes ⊠ No              |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ☐ Yes ⊠ No              |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ⊠ Yes □ No              |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ☐ Yes ☒ No              |
| Are the lateral extents of the release within 300 feet of a wetland?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ☐ Yes ⊠ No              |
| Are the lateral extents of the release overlying a subsurface mine?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ☐ Yes ⊠ No              |
| Are the lateral extents of the release overlying an unstable area such as karst geology?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ☐ Yes ⊠ No              |
| Are the lateral extents of the release within a 100-year floodplain?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ☐ Yes ⊠ No              |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ☐ Yes ⊠ No              |
| Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vecontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ertical extents of soil |
| Characterization Report Checklist: Each of the following items must be included in the report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |
| <ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring were prize to the point of the poi</li></ul> | ells.                   |
| Determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs  Photographs including date and GIS information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |
| Topographic/Aerial maps  Laboratory data including chain of custody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                         |

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Page 4 Och: 9/18/2024 9:56:21 Mate of New Mexico
Oil Conservation Division

|                | Page 349 of 8 |
|----------------|---------------|
| Incident ID    | 1 480 077 07  |
| District RP    | 2RP-5289      |
| Facility ID    |               |
| Application ID |               |

| regulations all operators are required to report and/or file certain public health or the environment. The acceptance of a C-141 repfailed to adequately investigate and remediate contamination that | release notifications and perform corrective actions for releases which may endanger port by the OCD does not relieve the operator of liability should their operations have at pose a threat to groundwater, surface water, human health or the environment. In operator of responsibility for compliance with any other federal, state, or local laws |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Printed Name: John Hurt Titl                                                                                                                                                                          | e:RES Specialist                                                                                                                                                                                                                                                                                                                                        |
| Signature:                                                                                                                                                                                            | Date: S/14/19                                                                                                                                                                                                                                                                                                                                           |
| email: JHurt@matadorresources.com                                                                                                                                                                     | Telephone:972-371-5200                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                         |
| OCD Only                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                         |
| Received by:                                                                                                                                                                                          | Date:                                                                                                                                                                                                                                                                                                                                                   |

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| Incident ID    |          |
|----------------|----------|
| District RP    | 2RP-5289 |
| Facility ID    |          |
| Application ID |          |

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

| Closure Report Atta                                                                                                                                       | chment Checklist: Each                                                                                                                         | of the following item                                                                                                                                                   | ns must be inc                                                                                                        | cluded in the closure report.                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A scaled site and                                                                                                                                         | sampling diagram as descr                                                                                                                      | ribed in 19.15.29.11 N                                                                                                                                                  | NMAC                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Photographs of the must be notified 2 day                                                                                                                 | ne remediated site prior to<br>ys prior to liner inspection)                                                                                   | backfill or photos of                                                                                                                                                   | the liner integ                                                                                                       | grity if applicable (Note: appropriate OCD District office                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                           | ses of final sampling (Note                                                                                                                    | : appropriate ODC D                                                                                                                                                     | istrict office r                                                                                                      | must be notified 2 days prior to final sampling)                                                                                                                                                                                                                                                                                                                                                                                              |
| Description of re                                                                                                                                         |                                                                                                                                                |                                                                                                                                                                         |                                                                                                                       | and any operation and sumpring)                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                           | THE PARTY OF TOWNS                                                                                                                             |                                                                                                                                                                         |                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| may endanger public h should their operations human health or the en compliance with any or restore, reclaim, and reaccordance with 19.15.  Printed Name: | ealth or the environment. have failed to adequately i vironment. In addition, Oo ther federal, state, or local evegetate the impacted surface. | t and/or file certain re The acceptance of a C investigate and remed CD acceptance of a C laws and/or regulation face area to the condit otification to the OCD  Title: | clease notifica: C-141 report b diate contamin c-141 report d ns. The respo tions that exis when reclam RES Spe Date: | my knowledge and understand that pursuant to OCD rules ations and perform corrective actions for releases which by the OCD does not relieve the operator of liability nation that pose a threat to groundwater, surface water, ones not relieve the operator of responsibility for consible party acknowledges they must substantially sted prior to the release or their final land use in nation and re-vegetation are complete.  Secialist |
| OCD Only                                                                                                                                                  |                                                                                                                                                |                                                                                                                                                                         |                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Received by:                                                                                                                                              |                                                                                                                                                |                                                                                                                                                                         | Date:                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| cinediate containinatio                                                                                                                                   | e OCD does not relieve the<br>in that poses a threat to grou<br>th any other federal, state, or                                                | indwater, surface wate                                                                                                                                                  | er human hea                                                                                                          | d their operations have failed to adequately investigate and alth, or the environment nor does not relieve the responsible                                                                                                                                                                                                                                                                                                                    |
| Closure Approved by:                                                                                                                                      |                                                                                                                                                |                                                                                                                                                                         | Date:                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Printed Name:                                                                                                                                             |                                                                                                                                                |                                                                                                                                                                         | Title:                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                               |

# APPENDIX B NMOSE WELLS REPORT



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

| POD Number | POD<br>Sub-<br>Code basin | County | Q ( | -   | Sec | Tws | Rng | х      | Y          | Distance | •   | -  | Water<br>Column |
|------------|---------------------------|--------|-----|-----|-----|-----|-----|--------|------------|----------|-----|----|-----------------|
| C 00738    | CUB                       | ED     | 3   |     |     | 24S |     | 589673 | 3565472* 🌍 | 237      | 125 | 12 | 113             |
| C 00574    | CUB                       | ED     | 2 4 | 1 4 | 11  | 24S | 28E | 589452 | 3566081*   | 439      | 200 | 20 | 180             |
| C 00903    | С                         | ED     | :   | 2 1 | 13  | 24S | 28E | 590178 | 3565575* 🌍 | 670      | 57  | 30 | 27              |
| C 00464    | CUB                       | ED     | 2 : | 2 1 | 13  | 24S | 28E | 590277 | 3565674* 🌍 | 765      | 111 | 28 | 83              |

Average Depth to Water: 22 feet

> Minimum Depth: 12 feet

30 feet Maximum Depth:

**Record Count: 4** 

**UTMNAD83 Radius Search (in meters):** 

Easting (X): 589511.6 Northing (Y): 3565645.69 Radius: 804

### \*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

# APPENDIX C VSP SAMPLING PROTOCOL

### VSP Sample Design Report for Using Stratified Sampling to Estimate the Population Proportion

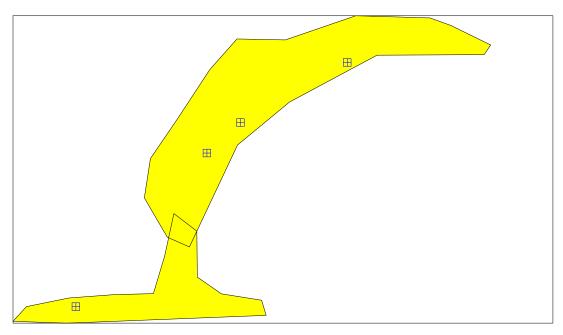
### **Summary**

This report summarizes the stratified sampling design used, associated statistical assumptions, as well as general guidelines for conducting post-sampling data analysis. Sampling plan components presented here include how many sampling locations to choose and where within the sampling area to collect those samples. The type of medium to sample (i.e., soil, groundwater, etc.) and how to analyze the samples (in-situ, fixed laboratory, etc.) are addressed in other sections of the sampling plan. It is important to note that the decision for sample size calculation is determined for the combined strata, rather than any individual strata.

The following table summarizes the proportion stratified sampling design developed. A figure that shows sampling locations in the field and a table that lists sampling location coordinates are also provided below.

| SUMMARY OF SAMPLING DESIGN                                          |                                                                                                                            |  |  |  |  |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Primary Objective of Design                                         | Estimate the population proportion of all strata combined                                                                  |  |  |  |  |
| Criteria for Determining<br>Total Number of Samples                 | Achieve pre-specified precision of the estimated proportion for specified stratum costs, but no restriction on total costs |  |  |  |  |
| Sample Placement (Location) in the Field                            | Random sampling within grids within each stratum                                                                           |  |  |  |  |
| Formula for calculating number of sampling locations                | From Gilbert (1987, page 51)                                                                                               |  |  |  |  |
| Method for calculating number of sampling locations in each stratum | Optimal Allocation                                                                                                         |  |  |  |  |
| Calculated total number of samples                                  | 4                                                                                                                          |  |  |  |  |
| Stratum 1                                                           | 3                                                                                                                          |  |  |  |  |
| Stratum 2                                                           | 1                                                                                                                          |  |  |  |  |
| Total area of all strata                                            | 2418.42 ft <sup>2</sup>                                                                                                    |  |  |  |  |

<sup>&</sup>lt;sup>a</sup> Including measurement analyses and fixed overhead costs. See the Cost of Sampling section for an explanation of the costs presented here.



| Area: Area 1                                           |             |  |  |                |  |  |  |  |  |
|--------------------------------------------------------|-------------|--|--|----------------|--|--|--|--|--|
| X Coord Y Coord Label Value Type Historical Sample Are |             |  |  |                |  |  |  |  |  |
| 628585.1635                                            | 444589.1800 |  |  | Random in Grid |  |  |  |  |  |
| 628594.4880                                            | 444597.6741 |  |  | Random in Grid |  |  |  |  |  |
| 628624.2165                                            | 444614.3863 |  |  | Random in Grid |  |  |  |  |  |

| Area: Area 2                                            |             |  |  |                |  |  |  |  |  |
|---------------------------------------------------------|-------------|--|--|----------------|--|--|--|--|--|
| X Coord Y Coord Label Value Type Historical Sample Area |             |  |  |                |  |  |  |  |  |
| 628548.6948                                             | 444546.4220 |  |  | Random in Grid |  |  |  |  |  |

# **Primary Sampling Objective**

The primary purpose of sampling at this site is to estimate the proportion for the entire site, i.e., for all strata combined, such that the estimated proportion has the minimum possible standard deviation under the condition that the sampling and measurement costs cannot exceed a specified amount. Preexisting information was used to divide the site into 2 non-overlapping strata that were expected to be more homogeneous internally than for the entire site (all strata combined). The expected variability of values within each stratum was estimated or approximated, and the stratum weights,  $W_{t}$ , were determined so that the total number of samples could be allocated appropriately among the strata.

### Number of Total Samples: Calculation Equation and Inputs

The total number of samples is computed to achieve the pre-specified precision of the estimated population proportion for specified stratum costs, but no restriction on total costs. Note that the calculation is for the total number of samples, i.e., for combined strata, rather than individual strata.

The formula used to calculate the total number of samples is:

$$n = \frac{\left(\sum_{h=1}^{L} W_h \sqrt{P_h (1 - P_h)} \sqrt{C_h}\right) \sum_{h=1}^{L} \frac{W_h \sqrt{P_h (1 - P_h)}}{\sqrt{C_h}}}{V + \frac{1}{N} \sum_{h=1}^{L} W_h P_h (1 - P_h)}$$

where

is the number of strata, h=1,2,...,L,

is the estimated proportion of measurements in stratum h,

is the total number of possible sampling locations (units) in stratum h,

is the total number of possible units in all strata combined,

is the pre-specified variance or precision, and

is the cost of collecting and measuring a sample in stratum h.

The values of these inputs that result in the calculated number of sampling locations are:

| Parameter      | Stratum |         |  |  |  |
|----------------|---------|---------|--|--|--|
|                | 1       | 2       |  |  |  |
| P <sub>h</sub> | 0.2     | 0.2     |  |  |  |
|                |         |         |  |  |  |
| W <sub>h</sub> | 1778.03 | 640.391 |  |  |  |

| Parameter | Input Value |
|-----------|-------------|
| V         | 1           |

# Allocation of Samples to Strata

The total number of samples is allocated to the individual strata on an optimal basis using the formula:

$$n_h = n \frac{N_h \sqrt{P_h (1 - P_h)} / \sqrt{c_h}}{\sum_{h=1}^L N_h \sqrt{P_h (1 - P_h)} / \sqrt{c_h}}$$

where

is the number of samples allocated to stratum h,

is the number of strata,

is the total number of units in stratum h,

is the proportion in stratum *h*,

is the cost per population unit in stratum h.

is the total number of units sampled in all strata,  $n = \sum_{h=1}^{L} n_h$ 

Using this formula, the number of samples allocated to each stratum is:

| Stratum       | Number of Samples |
|---------------|-------------------|
| 1             | 3                 |
| 2             | 1                 |
| Total Samples | 4                 |

# **Method for Determining Sampling Locations**

Five methods for determining sample locations are provided in VSP: 1) simple random sampling, 2) random sampling within grids, 3) systematic sampling with a random start, 4) systematic sampling with a fixed start and 5) adaptive grid sampling. One may use a different method for each stratum, based on the conceptual site model and decision to be made for a given stratum. For this site, sample locations were chosen using random sampling within grids in each stratum.

Locating the sample points using a random sampling within grids method combines appealing aspects of both the random and the systematic grid methods. It provides data that are separated by many distances, providing information about the spatial structure of the potential contamination. It also ensures good coverage of the entire site, although not as completely as if systematic grid sampling were performed.

### Statistical Assumptions

The assumptions associated with the formulas for computing the number of samples are:

- 1. The estimated stratum proportions,  $P_{h}$ , are reasonable and representative of the stratum populations being sampled.
- 2. The sampling locations are selected using simple random sampling.
- The stratum costs,  $C_h$ , and the fixed cost  $C_0$ , are accurate. 3.

The first and third assumptions will be assessed in a post data collection analysis. The second assumption, although not strictly valid for strata where systematic grid sampling was used rather than simple random sampling, is not expected to significantly affect conclusions of the study because (1) the gridded sample locations were selected based on a random start and (2) any patterns of contamination in the field that may exist are not expected to coincide with the regularity of the grid sampling pattern.

# **Recommended Data Analysis Activities**

Post data collection activities generally follow those outlined in EPA's Guidance for Data Quality Assessment (EPA, 2000). The data analysts will become familiar with the context of the problem and goals for data collection and assessment. The data will be verified and validated before being subjected to statistical or other analyses. Graphical and analytical tools will be used to verify to the extent possible the assumptions of any statistical analyses that are performed as well as to achieve a general understanding of the data. The data will be assessed to determine whether they are adequate in both quality and quantity to support the primary objective of sampling.

Estimates for the proportion of the population values will be calculated using the formulas appropriate for stratified sampling; these formulas are found in EPA QA/G-5S (EPA, 2001). Results of the exploratory and quantitative assessments of the data will be reported, along with conclusions that may be supported by them.

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\* - The report contents may have been modified or reformatted by end-user of software.

# APPENDIX D LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

February 28, 2019

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX:

RE: Janie Conner TB OrderNo.: 1902896

# Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 8 sample(s) on 2/21/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

# Analytical Report Lab Order 1902896

Date Reported: 2/28/2019

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-0.5

 Project:
 Janie Conner TB
 Collection Date: 2/19/2019 10:00:00 AM

 Lab ID:
 1902896-001
 Matrix: SOIL
 Received Date: 2/21/2019 8:40:00 AM

| Analyses                             | Result | RL       | Qual | Units | DF | Date Analyzed         | Batch |
|--------------------------------------|--------|----------|------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS             |        |          |      |       |    | Analyst               | smb   |
| Chloride                             | 900    | 60       |      | mg/Kg | 20 | 2/22/2019 7:13:43 PM  | 43302 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |      |       |    | Analyst               | : Irm |
| Diesel Range Organics (DRO)          | 310    | 9.7      |      | mg/Kg | 1  | 2/22/2019 10:13:03 AM | 43278 |
| Motor Oil Range Organics (MRO)       | 99     | 49       |      | mg/Kg | 1  | 2/22/2019 10:13:03 AM | 43278 |
| Surr: DNOP                           | 116    | 70-130   |      | %Rec  | 1  | 2/22/2019 10:13:03 AM | 43278 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |      |       |    | Analyst               | : NSB |
| Gasoline Range Organics (GRO)        | 23     | 4.7      |      | mg/Kg | 1  | 2/22/2019 3:05:51 PM  | 43274 |
| Surr: BFB                            | 236    | 73.8-119 | S    | %Rec  | 1  | 2/22/2019 3:05:51 PM  | 43274 |
| EPA METHOD 8021B: VOLATILES          |        |          |      |       |    | Analyst               | : NSB |
| Benzene                              | ND     | 0.023    |      | mg/Kg | 1  | 2/22/2019 3:05:51 PM  | 43274 |
| Toluene                              | 0.081  | 0.047    |      | mg/Kg | 1  | 2/22/2019 3:05:51 PM  | 43274 |
| Ethylbenzene                         | 0.060  | 0.047    |      | mg/Kg | 1  | 2/22/2019 3:05:51 PM  | 43274 |
| Xylenes, Total                       | 0.66   | 0.093    |      | mg/Kg | 1  | 2/22/2019 3:05:51 PM  | 43274 |
| Surr: 4-Bromofluorobenzene           | 99.1   | 80-120   |      | %Rec  | 1  | 2/22/2019 3:05:51 PM  | 43274 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/28/2019

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-1

 Project:
 Janie Conner TB
 Collection Date: 2/19/2019 10:05:00 AM

 Lab ID:
 1902896-002
 Matrix: SOIL
 Received Date: 2/21/2019 8:40:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed         | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS             |        |          |            |    | Analyst               | : CJS |
| Chloride                             | 1100   | 60       | mg/Kg      | 20 | 2/25/2019 12:47:09 PM | 43327 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |            |    | Analyst               | : Irm |
| Diesel Range Organics (DRO)          | 54     | 9.9      | mg/Kg      | 1  | 2/25/2019 4:03:18 PM  | 43303 |
| Motor Oil Range Organics (MRO)       | ND     | 49       | mg/Kg      | 1  | 2/25/2019 4:03:18 PM  | 43303 |
| Surr: DNOP                           | 83.6   | 70-130   | %Rec       | 1  | 2/25/2019 4:03:18 PM  | 43303 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst               | : NSB |
| Gasoline Range Organics (GRO)        | ND     | 4.8      | mg/Kg      | 1  | 2/23/2019 3:24:24 PM  | 43294 |
| Surr: BFB                            | 97.2   | 73.8-119 | %Rec       | 1  | 2/23/2019 3:24:24 PM  | 43294 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/28/2019

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-2

 Project:
 Janie Conner TB
 Collection Date: 2/19/2019 10:10:00 AM

 Lab ID:
 1902896-003
 Matrix: SOIL
 Received Date: 2/21/2019 8:40:00 AM

| Analyses                             | Result | RL (     | Qual Units | DF | Date Analyzed         | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS             |        |          |            |    | Analyst               | CJS   |
| Chloride                             | 1500   | 60       | mg/Kg      | 20 | 2/25/2019 12:59:33 PM | 43327 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |            |    | Analyst               | : Irm |
| Diesel Range Organics (DRO)          | 120    | 9.9      | mg/Kg      | 1  | 2/25/2019 1:06:37 PM  | 43303 |
| Motor Oil Range Organics (MRO)       | ND     | 50       | mg/Kg      | 1  | 2/25/2019 1:06:37 PM  | 43303 |
| Surr: DNOP                           | 91.4   | 70-130   | %Rec       | 1  | 2/25/2019 1:06:37 PM  | 43303 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst               | NSB   |
| Gasoline Range Organics (GRO)        | ND     | 4.9      | mg/Kg      | 1  | 2/23/2019 4:32:25 PM  | 43294 |
| Surr: BFB                            | 106    | 73.8-119 | %Rec       | 1  | 2/23/2019 4:32:25 PM  | 43294 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/28/2019

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L2-0.5

 Project:
 Janie Conner TB
 Collection Date: 2/19/2019 10:15:00 AM

 Lab ID:
 1902896-004
 Matrix: SOIL
 Received Date: 2/21/2019 8:40:00 AM

| Analyses                             | Result | RL       | Qual | Units | DF | Date Analyzed         | Batch |
|--------------------------------------|--------|----------|------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS             |        |          |      |       |    | Analyst               | smb   |
| Chloride                             | 620    | 60       |      | mg/Kg | 20 | 2/22/2019 7:26:08 PM  | 43302 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |      |       |    | Analyst               | : Irm |
| Diesel Range Organics (DRO)          | 7300   | 100      |      | mg/Kg | 10 | 2/22/2019 1:26:38 PM  | 43278 |
| Motor Oil Range Organics (MRO)       | 1800   | 500      |      | mg/Kg | 10 | 2/22/2019 1:26:38 PM  | 43278 |
| Surr: DNOP                           | 0      | 70-130   | S    | %Rec  | 10 | 2/22/2019 1:26:38 PM  | 43278 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |      |       |    | Analyst               | NSB   |
| Gasoline Range Organics (GRO)        | 2600   | 240      |      | mg/Kg | 50 | 2/22/2019 12:34:36 PM | 43274 |
| Surr: BFB                            | 239    | 73.8-119 | S    | %Rec  | 50 | 2/22/2019 12:34:36 PM | 43274 |
| EPA METHOD 8021B: VOLATILES          |        |          |      |       |    | Analyst               | NSB   |
| Benzene                              | 1.4    | 1.2      |      | mg/Kg | 50 | 2/22/2019 12:34:36 PM | 43274 |
| Toluene                              | 20     | 2.4      |      | mg/Kg | 50 | 2/22/2019 12:34:36 PM | 43274 |
| Ethylbenzene                         | 5.8    | 2.4      |      | mg/Kg | 50 | 2/22/2019 12:34:36 PM | 43274 |
| Xylenes, Total                       | 67     | 4.8      |      | mg/Kg | 50 | 2/22/2019 12:34:36 PM | 43274 |
| Surr: 4-Bromofluorobenzene           | 116    | 80-120   |      | %Rec  | 50 | 2/22/2019 12:34:36 PM | 43274 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/28/2019

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L2-1

 Project:
 Janie Conner TB
 Collection Date: 2/19/2019 10:20:00 AM

 Lab ID:
 1902896-005
 Matrix: SOIL
 Received Date: 2/21/2019 8:40:00 AM

| Analyses                             | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch |
|--------------------------------------|--------|----------|------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS             |        |          |      |       |    | Analyst              | : CJS |
| Chloride                             | 510    | 60       |      | mg/Kg | 20 | 2/25/2019 1:36:46 PM | 43327 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |      |       |    | Analyst              | : Irm |
| Diesel Range Organics (DRO)          | 420    | 9.9      |      | mg/Kg | 1  | 2/25/2019 1:28:38 PM | 43303 |
| Motor Oil Range Organics (MRO)       | 150    | 49       |      | mg/Kg | 1  | 2/25/2019 1:28:38 PM | 43303 |
| Surr: DNOP                           | 99.2   | 70-130   |      | %Rec  | 1  | 2/25/2019 1:28:38 PM | 43303 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |      |       |    | Analyst              | : NSB |
| Gasoline Range Organics (GRO)        | 31     | 4.7      |      | mg/Kg | 1  | 2/23/2019 4:55:03 PM | 43294 |
| Surr: BFB                            | 269    | 73.8-119 | S    | %Rec  | 1  | 2/23/2019 4:55:03 PM | 43294 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/28/2019

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L2-2

 Project:
 Janie Conner TB
 Collection Date: 2/19/2019 10:25:00 AM

 Lab ID:
 1902896-006
 Matrix: SOIL
 Received Date: 2/21/2019 8:40:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed        | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS             |        |          |            |    | Analyst              | : CJS |
| Chloride                             | 1300   | 60       | mg/Kg      | 20 | 2/25/2019 1:49:11 PM | 43327 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |            |    | Analyst              | : Irm |
| Diesel Range Organics (DRO)          | ND     | 9.9      | mg/Kg      | 1  | 2/25/2019 1:50:41 PM | 43303 |
| Motor Oil Range Organics (MRO)       | ND     | 49       | mg/Kg      | 1  | 2/25/2019 1:50:41 PM | 43303 |
| Surr: DNOP                           | 74.5   | 70-130   | %Rec       | 1  | 2/25/2019 1:50:41 PM | 43303 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst              | : NSB |
| Gasoline Range Organics (GRO)        | 5.4    | 4.9      | mg/Kg      | 1  | 2/23/2019 5:17:42 PM | 43294 |
| Surr: BFB                            | 112    | 73.8-119 | %Rec       | 1  | 2/23/2019 5:17:42 PM | 43294 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Sample container temperature is out of limit as specified

Date Reported: 2/28/2019

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L3-1

 Project:
 Janie Conner TB
 Collection Date: 2/19/2019 10:30:00 AM

 Lab ID:
 1902896-007
 Matrix: SOIL
 Received Date: 2/21/2019 8:40:00 AM

| Analyses                              | Result | RL       | Qual | Units | DF Date Analyzed Batch         |
|---------------------------------------|--------|----------|------|-------|--------------------------------|
| EPA METHOD 300.0: ANIONS              |        |          |      |       | Analyst: <b>smb</b>            |
| Chloride                              | 98     | 60       |      | mg/Kg | 20 2/22/2019 8:03:21 PM 4330   |
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | ANICS  |          |      |       | Analyst: Irm                   |
| Diesel Range Organics (DRO)           | 27000  | 960      |      | mg/Kg | 100 2/22/2019 1:50:52 PM 43278 |
| Motor Oil Range Organics (MRO)        | 8300   | 4800     |      | mg/Kg | 100 2/22/2019 1:50:52 PM 4327  |
| Surr: DNOP                            | 0      | 70-130   | S    | %Rec  | 100 2/22/2019 1:50:52 PM 43278 |
| EPA METHOD 8015D: GASOLINE RANGE      |        |          |      |       | Analyst: NSB                   |
| Gasoline Range Organics (GRO)         | 12000  | 490      |      | mg/Kg | 100 2/22/2019 12:57:31 PM 4327 |
| Surr: BFB                             | 255    | 73.8-119 | S    | %Rec  | 100 2/22/2019 12:57:31 PM 4327 |
| EPA METHOD 8021B: VOLATILES           |        |          |      |       | Analyst: NSB                   |
| Benzene                               | 29     | 2.4      |      | mg/Kg | 100 2/22/2019 12:57:31 PM 4327 |
| Toluene                               | 190    | 4.9      |      | mg/Kg | 100 2/22/2019 12:57:31 PM 4327 |
| Ethylbenzene                          | 29     | 4.9      |      | mg/Kg | 100 2/22/2019 12:57:31 PM 4327 |
| Xylenes, Total                        | 360    | 9.8      |      | mg/Kg | 100 2/22/2019 12:57:31 PM 4327 |
| Surr: 4-Bromofluorobenzene            | 118    | 80-120   |      | %Rec  | 100 2/22/2019 12:57:31 PM 4327 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 7 of 14 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit

% Recovery outside of range due to dilution or matrix

Date Reported: 2/28/2019

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L3-2

 Project:
 Janie Conner TB
 Collection Date: 2/19/2019 10:35:00 AM

 Lab ID:
 1902896-008
 Matrix: SOIL
 Received Date: 2/21/2019 8:40:00 AM

| Analyses                             | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch |
|--------------------------------------|--------|----------|------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS             |        |          |      |       |    | Analyst              | : CJS |
| Chloride                             | ND     | 60       |      | mg/Kg | 20 | 2/25/2019 2:01:36 PM | 43327 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |      |       |    | Analyst              | : Irm |
| Diesel Range Organics (DRO)          | 13000  | 190      |      | mg/Kg | 20 | 2/25/2019 3:19:04 PM | 43303 |
| Motor Oil Range Organics (MRO)       | 4000   | 970      |      | mg/Kg | 20 | 2/25/2019 3:19:04 PM | 43303 |
| Surr: DNOP                           | 0      | 70-130   | S    | %Rec  | 20 | 2/25/2019 3:19:04 PM | 43303 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |      |       |    | Analyst              | : NSB |
| Gasoline Range Organics (GRO)        | 5000   | 240      |      | mg/Kg | 50 | 2/23/2019 5:40:19 PM | 43294 |
| Surr: BFB                            | 247    | 73.8-119 | S    | %Rec  | 50 | 2/23/2019 5:40:19 PM | 43294 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1902896 28-Feb-19

**Client:** Souder, Miller & Associates

**Project:** Janie Conner TB

Sample ID: MB-43302 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 43302 RunNo: 57905

Prep Date: 2/22/2019 Analysis Date: 2/22/2019 SeqNo: 1939513 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID: LCS-43302 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 43302 RunNo: 57905

Prep Date: 2/22/2019 Analysis Date: 2/22/2019 SeqNo: 1939514 Units: mg/Kg

SPK value SPK Ref Val **RPDLimit** Analyte Result **PQL** %REC LowLimit HighLimit %RPD Qual

Chloride 14 1.5 15.00 0 94.7 110

Sample ID: MB-43327 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 43327 RunNo: 57937

Prep Date: Analysis Date: 2/25/2019 2/25/2019 SeqNo: 1940123 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte HighLimit Qual

Chloride ND

Sample ID: LCS-43327 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 43327 RunNo: 57937

Analysis Date: 2/25/2019 Units: mg/Kg Prep Date: 2/25/2019 SeqNo: 1940124

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride 14 1.5 15.00 0 94.4 90 110

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Analyte detected in the associated Method Blank

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## Hall Environmental Analysis Laboratory, Inc.

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WO#: **1902896** 

28-Feb-19

Client: Souder, Miller & Associates

**Project:** Janie Conner TB

| Sample ID: LCS-43278                | SampT                                                   | SampType: LCS TestCode: EPA Method  |                |             |                                      |                |              | esel Range | e Organics          |      |
|-------------------------------------|---------------------------------------------------------|-------------------------------------|----------------|-------------|--------------------------------------|----------------|--------------|------------|---------------------|------|
| Client ID: LCSS                     | Batch                                                   | ID: <b>43</b>                       | 278            | F           | RunNo: <b>57896</b>                  |                |              |            |                     |      |
| Prep Date: 2/21/2019                | 19 Analysis Date: 2/22/2019 SeqNo: 1938482 Units: mg/Kg |                                     |                |             |                                      | ζg             |              |            |                     |      |
| Analyte                             | Result                                                  | PQL                                 | SPK value      | SPK Ref Val | %REC                                 | LowLimit       | HighLimit    | %RPD       | RPDLimit            | Qual |
| Diesel Range Organics (DRO)         | 51                                                      | 10                                  | 50.00          | 0           | 103                                  | 63.9           | 124          |            |                     |      |
| Surr: DNOP                          | 5.2                                                     |                                     | 5.000          |             | 104                                  | 70             | 130          |            |                     |      |
|                                     |                                                         |                                     |                |             |                                      |                |              |            |                     |      |
| Sample ID: <b>MB-43278</b>          | SampT                                                   | уре: МЕ                             | BLK            | Tes         | tCode: El                            | PA Method      | 8015M/D: Die | esel Range | e Organics          |      |
| Sample ID: MB-43278 Client ID: PBS  | •                                                       | ype: <b>ME</b>                      |                |             | tCode: <b>EI</b><br>RunNo: <b>5</b>  |                | 8015M/D: Die | esel Rang  | e Organics          |      |
|                                     | •                                                       | iD: <b>43</b>                       | 278            | F           |                                      | 7896           | 8015M/D: Did | J          | e Organics          |      |
| Client ID: PBS                      | Batch                                                   | iD: <b>43</b>                       | 278<br>22/2019 | F           | RunNo: <b>5</b>                      | 7896<br>938483 |              | J          | e Organics RPDLimit | Qual |
| Client ID: PBS Prep Date: 2/21/2019 | Batch<br>Analysis D                                     | n ID: <b>43</b> :<br>ate: <b>2/</b> | 278<br>22/2019 | F           | RunNo: <b>5</b> *<br>SeqNo: <b>1</b> | 7896<br>938483 | Units: mg/k  | (g         | J                   | Qual |

| Sample ID: 1902896-001AMS   | SampT      | ype: <b>MS</b> | 3         | Tes         | tCode: El | PA Method | 8015M/D: Die | esel Range | nge Organics |      |  |  |  |
|-----------------------------|------------|----------------|-----------|-------------|-----------|-----------|--------------|------------|--------------|------|--|--|--|
| Client ID: L1-0.5           | Batch      | 1D: <b>43</b>  | 278       | F           | tunNo: 5  | 7896      |              |            |              |      |  |  |  |
| Prep Date: 2/21/2019        | Analysis D | ate: <b>2/</b> | 22/2019   | S           | SeqNo: 1  | 938485    | Units: mg/K  | (g         |              |      |  |  |  |
| Analyte                     | Result     | PQL            | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit    | %RPD       | RPDLimit     | Qual |  |  |  |
| Diesel Range Organics (DRO) | 360        | 9.7            | 48.50     | 311.8       | 91.4      | 53.5      | 126          |            |              |      |  |  |  |
| Surr: DNOP                  | 4.6        |                | 4.850     |             | 93.9      | 70        | 130          |            |              |      |  |  |  |

109

130

10.00

| Sample ID: 1902896-001AMSD  | SampT  | ype: <b>MS</b> | SD        | Tes         | tCode: El | PA Method | 8015M/D: Die | esel Range | e Organics |      |
|-----------------------------|--------|----------------|-----------|-------------|-----------|-----------|--------------|------------|------------|------|
| Client ID: L1-0.5           | Batch  | ID: <b>43</b>  | 278       | F           | RunNo: 5  | 7896      |              |            |            |      |
| Prep Date: 2/21/2019        | S      | SeqNo: 1       | 938486    | Units: mg/K | (g        |           |              |            |            |      |
| Analyte                     | Result | PQL            | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit    | %RPD       | RPDLimit   | Qual |
| Diesel Range Organics (DRO) | 380    | 10             | 49.75     | 311.8       | 140       | 53.5      | 126          | 6.88       | 21.7       | S    |
| Surr: DNOP                  | 5.9    |                | 4.975     |             | 118       | 70        | 130          | 0          | 0          |      |

| Sample ID. LCS-43303        | Sampi      | уре. <b>LC</b> | .3        | 169                 | icode. Ei | - A Welliou | OU I SIVI/D. DIE | esei Kange | e Organics |      |
|-----------------------------|------------|----------------|-----------|---------------------|-----------|-------------|------------------|------------|------------|------|
| Client ID: LCSS             | Batch      | ID: <b>43</b>  | 303       | RunNo: <b>57917</b> |           |             |                  |            |            |      |
| Prep Date: 2/22/2019        | Analysis D | ate: <b>2/</b> | 25/2019   | 9                   | SeqNo: 1  | 939464      | Units: mg/K      | (g         |            |      |
| Analyte                     | Result     | PQL            | SPK value | SPK Ref Val         | %REC      | LowLimit    | HighLimit        | %RPD       | RPDLimit   | Qual |
| Diesel Range Organics (DRO) | 49         | 10             | 50.00     | 0                   | 97.2      | 63.9        | 124              |            |            |      |
| Surr: DNOP                  | 4.3        |                | 5.000     |                     | 87.0      | 70          | 130              |            |            |      |

#### Qualifiers:

Surr: DNOP

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1902896 28-Feb-19** 

Client: Souder, Miller & Associates

**Project:** Janie Conner TB

Sample ID: MB-43303 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 43303 RunNo: 57917

Prep Date: 2/22/2019 Analysis Date: 2/25/2019 SeqNo: 1939465 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) ND 10

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 8.3 10.00 83.3 70 130

Sample ID: 1902896-002AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: L1-1 Batch ID: 43303 RunNo: 57917

Prep Date: 2/22/2019 Analysis Date: 2/25/2019 SeqNo: 1940338 Units: mg/Kg

**PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Diesel Range Organics (DRO) S 73 9.7 48.40 54.43 38.8 53.5 126 Surr: DNOP 3.9 4.840 80.5 70 130

Sample ID: 1902896-002AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: L1-1 Batch ID: 43303 RunNo: 57917

Prep Date: 2/22/2019 Analysis Date: 2/25/2019 SeqNo: 1940339 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 54.43 53.5 21.7 S 65 9.7 48.50 21.9 126 11.9 Surr: DNOP 3.8 4.850 78.1 70 130 0 0

Sample ID: LCS-43309 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 43309 RunNo: 57917

Prep Date: 2/22/2019 Analysis Date: 2/25/2019 SeqNo: 1940344 Units: %Rec

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result POL HighLimit Qual Surr: DNOP 4.0 5.000 79.3 70 130

Sample ID: MB-43309 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 43309 RunNo: 57917

Prep Date: 2/22/2019 Analysis Date: 2/25/2019 SeqNo: 1940345 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 9.3 10.00 93.3 70 130

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1902896** 

28-Feb-19

Client: Souder, Miller & Associates

**Project:** Janie Conner TB

Sample ID: MB-43271 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 43271 RunNo: 57873

Prep Date: 2/21/2019 Analysis Date: 2/22/2019 SeqNo: 1937710 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Surr: BFB
 870
 1000
 87.3
 73.8
 119

Sample ID: LCS-43271 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 43271 RunNo: 57873

Prep Date: 2/21/2019 Analysis Date: 2/22/2019 SeqNo: 1937711 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1000 1000 104 73.8 119

Sample ID: MB-43274 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 43274 RunNo: 57872

Prep Date: 2/21/2019 Analysis Date: 2/22/2019 SeqNo: 1937715 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) ND 5.0

 Gasoline Range Organics (GRO)
 ND
 5.0

 Surr: BFB
 1000
 1000
 104
 73.8
 119

Sample ID: LCS-43274 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 43274 RunNo: 57872

Prep Date: 2/21/2019 Analysis Date: 2/22/2019 SeqNo: 1937716 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 26
 5.0
 25.00
 0
 106
 80.1
 123

 Surr: BFB
 1100
 1000
 113
 73.8
 119

Sample ID: MB-43294 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 43294 RunNo: 57911

Prep Date: 2/22/2019 Analysis Date: 2/23/2019 SeqNo: 1938951 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 860 1000 86.1 73.8 119

Sample ID: LCS-43294 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 43294 RunNo: 57911

Prep Date: 2/22/2019 Analysis Date: 2/23/2019 SeqNo: 1938952 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Gasoline Range Organics (GRO) 26 5.0 25.00 0 103 80.1 123

Surr: BFB 1100 1000 107 73.8 119

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

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P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1902896

28-Feb-19

**Client:** Souder, Miller & Associates

**Project:** Janie Conner TB

Sample ID: 1902896-002AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: L1-1 Batch ID: 43294 RunNo: 57911

Prep Date: 2/22/2019 Analysis Date: 2/23/2019 SeqNo: 1938954 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 4.8 2.371 69.1 31 23.76 121 142

Surr: BFB 1100 950.6 118 73.8 119

TestCode: EPA Method 8015D: Gasoline Range Sample ID: 1902896-002AMSD SampType: MSD

Client ID: L1-1 Batch ID: 43294 RunNo: 57911

Prep Date: 2/22/2019 Analysis Date: 2/23/2019 SeqNo: 1938955 Units: mg/Kg

SPK value SPK Ref Val Analyte Result **PQL** %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 34 5.0 25.00 2.371 128 69.1 142 10.2 20 1200 73.8 0 S Surr: BFB 1000 119 119 0

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **1902896 28-Feb-19** 

Client: Souder, Miller & Associates

**Project:** Janie Conner TB

| Sample ID: MB-43274        | Sampl      | Гуре: МЕ        | BLK                      | Tes         | TestCode: EPA Method 8021B: Volatiles |           |              |      |          |      |  |  |  |
|----------------------------|------------|-----------------|--------------------------|-------------|---------------------------------------|-----------|--------------|------|----------|------|--|--|--|
| Client ID: PBS             | Batc       | h ID: <b>43</b> | 274                      | F           | RunNo: <b>57872</b>                   |           |              |      |          |      |  |  |  |
| Prep Date: 2/21/2019       | Analysis D | Date: 2/        | 2/22/2019 SeqNo: 1938745 |             |                                       |           | Units: mg/K  | (g   |          |      |  |  |  |
| Analyte                    | Result     | PQL             | SPK value                | SPK Ref Val | %REC                                  | LowLimit  | HighLimit    | %RPD | RPDLimit | Qual |  |  |  |
| Benzene                    | ND         | 0.025           |                          | ·           |                                       |           |              |      |          |      |  |  |  |
| Toluene                    | ND         | 0.050           |                          |             |                                       |           |              |      |          |      |  |  |  |
| Ethylbenzene               | ND         | 0.050           |                          |             |                                       |           |              |      |          |      |  |  |  |
| Xylenes, Total             | ND         | 0.10            |                          |             |                                       |           |              |      |          |      |  |  |  |
| Surr: 4-Bromofluorobenzene | 0.99       |                 | 1.000                    |             | 98.6                                  | 80        | 120          |      |          |      |  |  |  |
| Sample ID: LCS-43274       | Samp       | Гуре: <b>LC</b> | s                        | Tes         | tCode: El                             | PA Method | 8021B: Volat | iles |          |      |  |  |  |
| Client ID: I CSS           | Rate       | h ID: 42        | 274                      |             | PunNo: 5                              | 7072      |              |      |          |      |  |  |  |

| Toluene       0.95       0.050       1.000       0       94.7       80       120         Ethylbenzene       0.94       0.050       1.000       0       94.0       80       120                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |            | <i>)</i>        | _         |             |          |          |             |      |          |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------|-----------------|-----------|-------------|----------|----------|-------------|------|----------|------|
| Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Benzene         0.91         0.025         1.000         0         90.8         80         120           Toluene         0.95         0.050         1.000         0         94.7         80         120           Ethylbenzene         0.94         0.050         1.000         0         94.0         80         120           Xylenes, Total         2.9         0.10         3.000         0         95.4         80         120 | Client ID: LCSS            | Batcl      | h ID: <b>43</b> | 274       | F           | RunNo: 5 | 7872     |             |      |          |      |
| Benzene       0.91       0.025       1.000       0       90.8       80       120         Toluene       0.95       0.050       1.000       0       94.7       80       120         Ethylbenzene       0.94       0.050       1.000       0       94.0       80       120         Xylenes, Total       2.9       0.10       3.000       0       95.4       80       120                                                                                                                                                                                                                                             | Prep Date: 2/21/2019       | Analysis D | Date: <b>2/</b> | 22/2019   | 9           | SeqNo: 1 | 938746   | Units: mg/k | (g   |          |      |
| Toluene       0.95       0.050       1.000       0       94.7       80       120         Ethylbenzene       0.94       0.050       1.000       0       94.0       80       120         Xylenes, Total       2.9       0.10       3.000       0       95.4       80       120                                                                                                                                                                                                                                                                                                                                      | Analyte                    | Result     | PQL             | SPK value | SPK Ref Val | %REC     | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Ethylbenzene       0.94       0.050       1.000       0       94.0       80       120         Xylenes, Total       2.9       0.10       3.000       0       95.4       80       120                                                                                                                                                                                                                                                                                                                                                                                                                               | Benzene                    | 0.91       | 0.025           | 1.000     | 0           | 90.8     | 80       | 120         |      |          |      |
| Xylenes, Total 2.9 0.10 3.000 0 95.4 80 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Toluene                    | 0.95       | 0.050           | 1.000     | 0           | 94.7     | 80       | 120         |      |          |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ethylbenzene               | 0.94       | 0.050           | 1.000     | 0           | 94.0     | 80       | 120         |      |          |      |
| Surr: 4-Bromofluorobenzene         0.99         1.000         98.8         80         120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Xylenes, Total             | 2.9        | 0.10            | 3.000     | 0           | 95.4     | 80       | 120         |      |          |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Surr: 4-Bromofluorobenzene | 0.99       |                 | 1.000     |             | 98.8     | 80       | 120         |      |          |      |

| Sample ID: MB-43294        | IB-43294 SampType: MBLK TestCode: EPA Method 8021B: Volatiles |                |           |                                          |          |          | TestCode: EPA Method 8021B: Volatiles |      |          |      |  |  |  |  |
|----------------------------|---------------------------------------------------------------|----------------|-----------|------------------------------------------|----------|----------|---------------------------------------|------|----------|------|--|--|--|--|
| Client ID: PBS             | Batch                                                         | ID: 43         | 294       | F                                        | RunNo: 5 | 7911     |                                       |      |          |      |  |  |  |  |
| Prep Date: 2/22/2019       | Analysis Da                                                   | ate: <b>2/</b> | 23/2019   | SeqNo: <b>1938999</b> Units: <b>%Rec</b> |          |          |                                       |      |          |      |  |  |  |  |
| Analyte                    | Result                                                        | PQL            | SPK value | SPK Ref Val                              | %REC     | LowLimit | HighLimit                             | %RPD | RPDLimit | Qual |  |  |  |  |
| Surr: 4-Bromofluorobenzene | 0.94                                                          |                | 1.000     |                                          | 93.8     | 80       | 120                                   |      |          |      |  |  |  |  |

| Sample ID: LCS-43294       | SampT      | ype: LC       | s         | Tes         | TestCode: EPA Method 8021B: Volatiles    |          |           |      |          |      |  |
|----------------------------|------------|---------------|-----------|-------------|------------------------------------------|----------|-----------|------|----------|------|--|
| Client ID: LCSS            | Batch      | ID: <b>43</b> | 294       | F           | RunNo: 5                                 | 7911     |           |      |          |      |  |
| Prep Date: 2/22/2019       | Analysis D | ate: 2/       | /23/2019  | S           | SeqNo: <b>1939000</b> Units: <b>%Rec</b> |          |           |      |          |      |  |
| Analyte                    | Result     | PQL           | SPK value | SPK Ref Val | %REC                                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |  |
| Surr: 4-Bromofluorohenzene | 11         |               | 1 000     |             | 109                                      | 80       | 120       |      |          |      |  |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

## Sample Log-In Check List

| Client Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SMA-CARLSBAD                                              | Work Order Number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 19028                                  | 96            |          | RcptNo                                                                                                          | o: 1               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------|----------|-----------------------------------------------------------------------------------------------------------------|--------------------|
| Received By:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Isaiah Ortiz                                              | 2/21/2019 8:40:00 AM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        | 7             |          | 2-4                                                                                                             |                    |
| Completed By: Reviewed By:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Isaiah Ortiz<br>                                          | 2/21/2019 8:49:38 AM<br>てしていい                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                        | - T.          | _ C      | 24                                                                                                              |                    |
| Chain of Cus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                           | <b>-</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |               |          |                                                                                                                 |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Stody<br>Custody complete?                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Yes §                                  | <b>∕</b> l No |          | Not Present                                                                                                     |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | e sample delivered?                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Courie                                 |               |          | Not Present                                                                                                     |                    |
| Log In                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |               |          |                                                                                                                 |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | mpt made to cool the samp                                 | les?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Yes 🛚                                  | No            |          | NA 🗆                                                                                                            |                    |
| 4. Were all sam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ples received at a tempera                                | ture of >0° C to 6.0°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Yes 🖢                                  | <b>N</b> o    |          | NA 🗆                                                                                                            |                    |
| 5. Sample(s) in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | proper container(s)?                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Yes 🖢                                  | <b>☑</b> No   |          |                                                                                                                 |                    |
| 6. Sufficient san                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | mple volume for indicated to                              | est(s)?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Yes 🔽                                  | ' No          |          |                                                                                                                 |                    |
| 7. Are samples                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (except VOA and ONG) pro                                  | pperly preserved?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Yes 🛂                                  | . No          |          |                                                                                                                 |                    |
| 8. Was preserva                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ative added to bottles?                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Yes [                                  | ] No          | <b>✓</b> | NA 🗆                                                                                                            |                    |
| 9. VOA vials hav                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ve zero headspace?                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Yes [                                  | ] No          |          | No VOA Vials                                                                                                    | _                  |
| 10. Were any sa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | mple containers received b                                | roken?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Yes                                    | ] No          | <b>V</b> | # of preserved                                                                                                  | ,,0                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ork match bottle labels?<br>ancies on chain of custody    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Yes 🛂                                  | No            |          | bottles checked<br>for pH:                                                                                      | r>12 unless noted) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | correctly identified on Chai                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Yes 🗹                                  | ' No          |          | Adjusted                                                                                                        |                    |
| 13, Is it clear wha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | at analyses were requested                                | ?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Yes 🗹                                  | . No          |          |                                                                                                                 |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ing times able to be met?<br>customer for authorization.) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Yes 🗸                                  | . No          |          | Checked by:                                                                                                     |                    |
| Special Hand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ling (if applicable)                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |               |          |                                                                                                                 |                    |
| 15. Was client no                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | otified of all discrepancies                              | vith this order?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Yes [                                  | □ No          |          | NA 🗹                                                                                                            |                    |
| Person                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Notified:                                                 | Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |               |          |                                                                                                                 | ļ                  |
| By Who                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                                                         | Via:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ] eMail                                | Phone         | ] Fax    | In Person                                                                                                       |                    |
| Regard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | **************************************                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |               |          |                                                                                                                 |                    |
| L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Instructions:                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |               |          | to the second |                    |
| 16. Additional re                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | emarks:                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |               |          |                                                                                                                 |                    |
| 17. Cooler Info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                           | - S - 1 COST - TOLER IN MARKET NICK - COMPA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        |               |          |                                                                                                                 |                    |
| Cooler No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Temp °C Gondition                                         | Seal Intact   Seal No   Seal No   Seal Intact   Seal No   Seal No | eal Date                               | Signed        | Ву       |                                                                                                                 |                    |
| E SECONDA LEVEL CONTROL CONTRO | F                                                         | 1.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ************************************** |               |          | J                                                                                                               |                    |
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| <del></del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | - <u> </u>                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |               |          |                                                                                                                 |                    |
| Page 1 of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | f1                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |               |          |                                                                                                                 | <del></del>        |

| HALL ENVIRONMENTAL         | ANALYSIS LABORATORY | www.hallenvironmental.com | 4901 Hawkins NE - Albuquerque, NM 87109 | Tel. 505-345-3975 Fax 505-345-4107 | Analysis | 0                |                                                        | O / DR S 808\(\rangle \text{10} \) \(\rangle \text{10} \text{10} \) \(\rangle \text{10} \text{10} \text{10} \) \(\rangle \text{10} \text | Sebi<br>de 5<br>de 5<br>de 6<br>de 6<br>de 6<br>de 6<br>de 6<br>de 6<br>de 6<br>de 6 | ethodal<br>ethodal<br>Mei<br>Mei<br>Mo<br>(AO) | POS(Hq<br>180<br>M) BQ<br>MAHA by<br>MAHA br>MAHA by<br>MAHA by<br>MAHA by<br>MAHA by<br>MAHA by<br>MAHA by<br>MAHA by<br>MAHA by | 8<br>8<br>8<br>8<br>8   | ×              | *                | × × ×          |         | × ×        | X X         | × ×           |  |   | Remarks: VNatador 2019 |                              | if necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. |
|----------------------------|---------------------|---------------------------|-----------------------------------------|------------------------------------|----------|------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| Tum-Around Time: Soay Lorn | ndard 🗆             | Project Name:             | Janie Conner 18                         | Project #:                         |          | Project Manager: | J. Wenny                                               | Sampler:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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This serves as notice of this po-                                                                                                                                                      |
| Chain-of-Custody Record    | SWA                 | (asylshoo)                | Mailing Address:                        |                                    | Phone #: | email or Fax#:   | QA/QC Package:  □ Standard □ Level 4 (Full Validation) | ☐ Az Compliance<br>☐ Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

August 05, 2016

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: Janie Connor 201 OrderNo.: 1607D21

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/26/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

# **Analytical Report**Lab Order **1607D21**

Date Reported: 8/5/2016

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: P1

 Project:
 Janie Connor 201
 Collection Date: 7/22/2016 12:00:00 PM

 Lab ID:
 1607D21-001
 Matrix: SOIL
 Received Date: 7/26/2016 10:00:00 AM

| Analyses                        | Result     | PQL Q  | ual Units | DF | Date Analyzed        | Batch |
|---------------------------------|------------|--------|-----------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS        |            |        |           |    | Analyst              | LGT   |
| Chloride                        | 170        | 30     | mg/Kg     | 20 | 8/1/2016 10:24:48 PM | 26731 |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS |        |           |    | Analyst              | : KJH |
| Diesel Range Organics (DRO)     | 11         | 9.6    | mg/Kg     | 1  | 8/1/2016 12:02:53 PM | 26694 |
| Motor Oil Range Organics (MRO)  | ND         | 48     | mg/Kg     | 1  | 8/1/2016 12:02:53 PM | 26694 |
| Surr: DNOP                      | 53.9       | 70-130 | S %Rec    | 1  | 8/1/2016 12:02:53 PM | 26694 |
| EPA METHOD 8015D: GASOLINE RANG | <b>GE</b>  |        |           |    | Analyst              | RAA   |
| Gasoline Range Organics (GRO)   | ND         | 4.8    | mg/Kg     | 1  | 7/27/2016 3:59:13 PM | 26606 |
| Surr: BFB                       | 106        | 80-120 | %Rec      | 1  | 7/27/2016 3:59:13 PM | 26606 |
| EPA METHOD 8021B: VOLATILES     |            |        |           |    | Analyst              | RAA   |
| Methyl tert-butyl ether (MTBE)  | ND         | 0.097  | mg/Kg     | 1  | 7/27/2016 3:59:13 PM | 26606 |
| Benzene                         | ND         | 0.024  | mg/Kg     | 1  | 7/27/2016 3:59:13 PM | 26606 |
| Toluene                         | ND         | 0.048  | mg/Kg     | 1  | 7/27/2016 3:59:13 PM | 26606 |
| Ethylbenzene                    | ND         | 0.048  | mg/Kg     | 1  | 7/27/2016 3:59:13 PM | 26606 |
| Xylenes, Total                  | ND         | 0.097  | mg/Kg     | 1  | 7/27/2016 3:59:13 PM | 26606 |
| Surr: 4-Bromofluorobenzene      | 99.9       | 80-120 | %Rec      | 1  | 7/27/2016 3:59:13 PM | 26606 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Analytical Report Lab Order 1607D21

Date Reported: **8/5/2016** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: P2

 Project:
 Janie Connor 201
 Collection Date: 7/22/2016 12:00:00 PM

 Lab ID:
 1607D21-002
 Matrix: SOIL
 Received Date: 7/26/2016 10:00:00 AM

| Analyses                       | Result      | PQL (  | Qual | Units | DF | Date Analyzed        | Batch |
|--------------------------------|-------------|--------|------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS       |             |        |      |       |    | Analyst              | : LGT |
| Chloride                       | 1600        | 75     |      | mg/Kg | 50 | 8/2/2016 9:22:20 PM  | 26731 |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANICS |        |      |       |    | Analyst              | : TOM |
| Diesel Range Organics (DRO)    | ND          | 9.5    |      | mg/Kg | 1  | 7/27/2016 6:52:04 PM | 26603 |
| Motor Oil Range Organics (MRO) | ND          | 48     |      | mg/Kg | 1  | 7/27/2016 6:52:04 PM | 26603 |
| Surr: DNOP                     | 48.4        | 70-130 | S    | %Rec  | 1  | 7/27/2016 6:52:04 PM | 26603 |
| EPA METHOD 8015D: GASOLINE RAM | IGE         |        |      |       |    | Analyst              | : RAA |
| Gasoline Range Organics (GRO)  | ND          | 4.7    |      | mg/Kg | 1  | 7/27/2016 4:22:52 PM | 26606 |
| Surr: BFB                      | 106         | 80-120 |      | %Rec  | 1  | 7/27/2016 4:22:52 PM | 26606 |
| EPA METHOD 8021B: VOLATILES    |             |        |      |       |    | Analyst              | : RAA |
| Methyl tert-butyl ether (MTBE) | ND          | 0.093  |      | mg/Kg | 1  | 7/27/2016 4:22:52 PM | 26606 |
| Benzene                        | ND          | 0.023  |      | mg/Kg | 1  | 7/27/2016 4:22:52 PM | 26606 |
| Toluene                        | ND          | 0.047  |      | mg/Kg | 1  | 7/27/2016 4:22:52 PM | 26606 |
| Ethylbenzene                   | ND          | 0.047  |      | mg/Kg | 1  | 7/27/2016 4:22:52 PM | 26606 |
| Xylenes, Total                 | ND          | 0.093  |      | mg/Kg | 1  | 7/27/2016 4:22:52 PM | 26606 |
| Surr: 4-Bromofluorobenzene     | 97.8        | 80-120 |      | %Rec  | 1  | 7/27/2016 4:22:52 PM | 26606 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# **Analytical Report**Lab Order **1607D21**

Date Reported: 8/5/2016

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: P3

 Project:
 Janie Connor 201
 Collection Date: 7/22/2016 12:00:00 PM

 Lab ID:
 1607D21-003
 Matrix: SOIL
 Received Date: 7/26/2016 10:00:00 AM

| Analyses                       | Result      | PQL (  | Qual | Units | DF | Date Analyzed        | Batch |
|--------------------------------|-------------|--------|------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS       |             |        |      |       |    | Analyst              | : LGT |
| Chloride                       | 1800        | 75     |      | mg/Kg | 50 | 8/2/2016 9:34:44 PM  | 26731 |
| EPA METHOD 8015M/D: DIESEL RAN | GE ORGANICS |        |      |       |    | Analyst              | : TOM |
| Diesel Range Organics (DRO)    | ND          | 9.6    |      | mg/Kg | 1  | 7/27/2016 7:20:02 PM | 26603 |
| Motor Oil Range Organics (MRO) | ND          | 48     |      | mg/Kg | 1  | 7/27/2016 7:20:02 PM | 26603 |
| Surr: DNOP                     | 47.8        | 70-130 | S    | %Rec  | 1  | 7/27/2016 7:20:02 PM | 26603 |
| EPA METHOD 8015D: GASOLINE RAM | IGE         |        |      |       |    | Analyst              | : RAA |
| Gasoline Range Organics (GRO)  | ND          | 4.8    |      | mg/Kg | 1  | 7/27/2016 4:46:28 PM | 26606 |
| Surr: BFB                      | 106         | 80-120 |      | %Rec  | 1  | 7/27/2016 4:46:28 PM | 26606 |
| EPA METHOD 8021B: VOLATILES    |             |        |      |       |    | Analyst              | : RAA |
| Methyl tert-butyl ether (MTBE) | ND          | 0.096  |      | mg/Kg | 1  | 7/27/2016 4:46:28 PM | 26606 |
| Benzene                        | ND          | 0.024  |      | mg/Kg | 1  | 7/27/2016 4:46:28 PM | 26606 |
| Toluene                        | ND          | 0.048  |      | mg/Kg | 1  | 7/27/2016 4:46:28 PM | 26606 |
| Ethylbenzene                   | ND          | 0.048  |      | mg/Kg | 1  | 7/27/2016 4:46:28 PM | 26606 |
| Xylenes, Total                 | ND          | 0.096  |      | mg/Kg | 1  | 7/27/2016 4:46:28 PM | 26606 |
| Surr: 4-Bromofluorobenzene     | 100         | 80-120 |      | %Rec  | 1  | 7/27/2016 4:46:28 PM | 26606 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1607D21

05-Aug-16

**Client:** Souder, Miller & Associates

**Project:** Janie Connor 201

Sample ID MB-26731 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 26731 RunNo: 36149

Prep Date: 8/1/2016 Analysis Date: 8/1/2016 SeqNo: 1119547 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID LCS-26731 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 26731 RunNo: 36149

Prep Date: 8/1/2016 Analysis Date: 8/1/2016 SeqNo: 1119549 Units: mg/Kg

**RPDLimit** SPK value SPK Ref Val %REC LowLimit %RPD Analyte Result HighLimit Qual

Chloride 14 1.5 15.00 0 92.9 110

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **1607D21** 

05-Aug-16

Client: Souder, Miller & Associates

**Project:** Janie Connor 201

| Project: Jame Co               | onnor 201                |                                                        |
|--------------------------------|--------------------------|--------------------------------------------------------|
| Sample ID MB-26603             | SampType: <b>MBLK</b>    | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: PBS                 | Batch ID: 26603          | RunNo: <b>36010</b>                                    |
| Prep Date: 7/26/2016           | Analysis Date: 7/27/2016 | SeqNo: 1115521 Units: mg/Kg                            |
| Analyte                        | Result PQL SPK value     | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Diesel Range Organics (DRO)    | ND 10                    |                                                        |
| Motor Oil Range Organics (MRO) | ND 50                    |                                                        |
| Surr: DNOP                     | 8.0 10.00                | 80.5 70 130                                            |
| Sample ID LCS-26603            | SampType: <b>LCS</b>     | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: LCSS                | Batch ID: 26603          | RunNo: <b>36010</b>                                    |
| Prep Date: 7/26/2016           | Analysis Date: 7/27/2016 | SeqNo: 1115716 Units: mg/Kg                            |
| Analyte                        | Result PQL SPK value     | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Diesel Range Organics (DRO)    | 50 10 50.00              | 0 101 62.6 124                                         |
| Surr: DNOP                     | 4.5 5.000                | 90.9 70 130                                            |
| Sample ID LCS-26694            | SampType: <b>LCS</b>     | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: LCSS                | Batch ID: 26694          | RunNo: <b>36120</b>                                    |
| Prep Date: 7/29/2016           | Analysis Date: 8/1/2016  | SeqNo: 1118973 Units: mg/Kg                            |
| Analyte                        | Result PQL SPK value     | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Diesel Range Organics (DRO)    | 48 10 50.00              | 0 96.9 62.6 124                                        |
| Surr: DNOP                     | 4.6 5.000                | 91.4 70 130                                            |
| Sample ID MB-26694             | SampType: MBLK           | TestCode: EPA Method 8015M/D: Diesel Range Organics    |
| Client ID: PBS                 | Batch ID: 26694          | RunNo: <b>36120</b>                                    |
| Prep Date: <b>7/29/2016</b>    | Analysis Date: 8/1/2016  | SeqNo: 1118974 Units: mg/Kg                            |
| Analyte                        | Result PQL SPK value     | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Diesel Range Organics (DRO)    | ND 10                    |                                                        |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Motor Oil Range Organics (MRO)

Surr: DNOP

H Holding times for preparation or analysis exceeded

ND

8.1

50

10.00

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range

81.1

70

130

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Released to Imaging: 10/1/2024 11:13:49 AM

Page 5 of 7

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1607D21

Page 6 of 7

05-Aug-16

Souder, Miller & Associates **Client:** 

**Project:** Janie Connor 201

Sample ID LCS-26606 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 26606 RunNo: 36031

Prep Date: 7/26/2016 Analysis Date: 7/27/2016 SeqNo: 1115993 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 0 97.3 80 24 120

Surr: BFB 1100 1000 114 80 120

TestCode: EPA Method 8015D: Gasoline Range Sample ID MB-26606 SampType: MBLK

Client ID: PBS Batch ID: 26606 RunNo: 36031

Analysis Date: 7/27/2016 SeqNo: 1115994 Prep Date: 7/26/2016 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) ND 5.0

1000 1000 104 Surr: BFB 80 120

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1607D21** 

05-Aug-16

Client: Souder, Miller & Associates

**Project:** Janie Connor 201

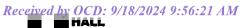
| Sample ID LCS-26606            | SampType: <b>LCS</b> |                   |           | -26606 SampType: LCS TestCode: EPA Method 8021B: Volatiles |          |          |              |      | TestCode: EPA Method 8021B: Volatiles |      |  |  |  |  |  |
|--------------------------------|----------------------|-------------------|-----------|------------------------------------------------------------|----------|----------|--------------|------|---------------------------------------|------|--|--|--|--|--|
| Client ID: LCSS                | Batch                | n ID: <b>26</b> 0 | 606       | RunNo: <b>36031</b>                                        |          |          |              |      |                                       |      |  |  |  |  |  |
| Prep Date: 7/26/2016           | Analysis D           | Date: <b>7/</b>   | 27/2016   | S                                                          | SeqNo: 1 | 116018   | Units: mg/Kg |      |                                       |      |  |  |  |  |  |
| Analyte                        | Result               | PQL               | SPK value | SPK Ref Val                                                | %REC     | LowLimit | HighLimit    | %RPD | RPDLimit                              | Qual |  |  |  |  |  |
| Methyl tert-butyl ether (MTBE) | 0.95                 | 0.10              | 1.000     | 0                                                          | 95.1     | 61       | 143          |      |                                       |      |  |  |  |  |  |
| Benzene                        | 0.99                 | 0.025             | 1.000     | 0                                                          | 99.4     | 75.3     | 123          |      |                                       |      |  |  |  |  |  |
| Toluene                        | 0.96                 | 0.050             | 1.000     | 0                                                          | 96.3     | 80       | 124          |      |                                       |      |  |  |  |  |  |
| Ethylbenzene                   | 0.97                 | 0.050             | 1.000     | 0                                                          | 96.9     | 82.8     | 121          |      |                                       |      |  |  |  |  |  |
| Xylenes, Total                 | 2.9                  | 0.10              | 3.000     | 0                                                          | 96.7     | 83.9     | 122          |      |                                       |      |  |  |  |  |  |
| Surr: 4-Bromofluorobenzene     | 1.1                  |                   | 1.000     |                                                            | 106      | 80       | 120          |      |                                       |      |  |  |  |  |  |

| Sample ID MB-26606             | SampT      | Гуре: <b>М</b> Е | BLK       | TestCode: EPA Method 8021B: Volatiles |          |             |           |      |          |      |
|--------------------------------|------------|------------------|-----------|---------------------------------------|----------|-------------|-----------|------|----------|------|
| Client ID: PBS                 | Batcl      | h ID: <b>26</b>  | 606       | F                                     | RunNo: 3 | 6031        |           |      |          |      |
| Prep Date: 7/26/2016           | Analysis D | Date: <b>7</b> / | 27/2016   | 5                                     | 116019   | Units: mg/K | ίg        |      |          |      |
| Analyte                        | Result     | PQL              | SPK value | SPK Ref Val                           | %REC     | LowLimit    | HighLimit | %RPD | RPDLimit | Qual |
| Methyl tert-butyl ether (MTBE) | ND         | 0.10             |           |                                       |          |             |           |      |          |      |
| Benzene                        | ND         | 0.025            |           |                                       |          |             |           |      |          |      |
| Toluene                        | ND         | 0.050            |           |                                       |          |             |           |      |          |      |
| Ethylbenzene                   | ND         | 0.050            |           |                                       |          |             |           |      |          |      |
| Xylenes, Total                 | ND         | 0.10             |           |                                       |          |             |           |      |          |      |
| Surr: 4-Bromofluorobenzene     | 0.99       |                  | 1.000     |                                       | 98.6     | 80          | 120       |      |          |      |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 7 of 7





Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

## Sample Log-In Check List

| Client Name: SMA-CARLSBAD Work Order Num                                                                 | nber: 1607D21     |              | RcptNo: 1                      |                                             |
|----------------------------------------------------------------------------------------------------------|-------------------|--------------|--------------------------------|---------------------------------------------|
| Received by/date: AS ST 7011                                                                             |                   |              |                                | _                                           |
| Logged By: Lindsay Mangin 7/26/2016 10:00:0                                                              | 0 AM              | Junely Hlago |                                |                                             |
| Completed By: Lindsay Mangin 7/26/2016/10:07:3                                                           | 8 ÅM              | June House   |                                |                                             |
| Reviewed By: 07/2(1)                                                                                     | 1100              |              |                                |                                             |
| Chain of Custody                                                                                         |                   |              |                                |                                             |
| 1. Custody seals intact on sample bottles?                                                               | Yes 🗌             | No 🗆         | Not Present 🗹                  |                                             |
| 2. Is Chain of Custody complete?                                                                         | Yes 🗹             | No 🗀         | Not Present                    |                                             |
| 3. How was the sample delivered?                                                                         | Courier           |              |                                |                                             |
| <u>Log In</u>                                                                                            |                   |              |                                |                                             |
| 4. Was an attempt made to cool the samples?                                                              | Yes 🗸             | No 🗆         | na 🗆                           |                                             |
| 5. Were all samples received at a temperature of >0° C to 6.0°C                                          | Yes 🔽             | No 🗆         | na $\square$                   |                                             |
| 6. Sample(s) in proper container(s)?                                                                     | Yes 🗹             | No 🗌         |                                |                                             |
| 7. Sufficient sample volume for indicated test(s)?                                                       | Yes 🗹             | No 🗆         |                                |                                             |
| 8. Are samples (except VOA and ONG) properly preserved?                                                  | Yes 🗹             | No 🗆         |                                |                                             |
| 9. Was preservative added to bottles?                                                                    | Yes 🗌             | No 🗹         | NA 🗆                           |                                             |
| 10.VOA vials have zero headspace?                                                                        | Yes 🗌             | No 🗆         | No VOA Vials 🗹                 |                                             |
| 11. Were any sample containers received broken?                                                          | Yes U             | No 🗹         | # of preserved bottles checked |                                             |
| 12. Does paperwork match bottle labels?                                                                  | Yes 🗹             | No 🗆         | for pH:                        | - 40 ····l· - · · · · · · · · · · · · · · · |
| (Note discrepancies on chain of custody)                                                                 | Yes 🗸             | No 🗆         | (<∠ or<br>Adjusted?            | >12 unless noted)                           |
| 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? | Yes ✓<br>Yes ✓    | No 🗆         | . · · · · · · ·                |                                             |
| 15. Were all holding times able to be met?                                                               | Yes 🗹             | No 🗆         | Checked by:                    |                                             |
| (If no, notify customer for authorization.)                                                              |                   | L            |                                |                                             |
|                                                                                                          |                   |              |                                |                                             |
| Special Handling (if applicable)                                                                         |                   |              |                                |                                             |
| 16. Was client notified of all discrepancies with this order?                                            | Yes L             | No 🗆         | NA 🗹                           |                                             |
| Person Notified: Da                                                                                      | te                |              |                                |                                             |
| By Whom: Via                                                                                             | a: 🗌 eMail 🗌 F    | hone 🗌 Fax   | In Person                      |                                             |
| Regarding:                                                                                               |                   |              |                                |                                             |
| Client Instructions:                                                                                     |                   |              |                                |                                             |
| 17. Additional remarks:                                                                                  |                   |              |                                |                                             |
| 18. Cooler Information                                                                                   | . Lienari para di | Signad D. 1  |                                |                                             |
| Cooler No Temp °C Condition Seal Intact Seal No.                                                         | Seal Date         | Signed By    |                                |                                             |
| 1. 1   1.00                                                                                              | 1                 |              |                                |                                             |

| Carlsbad, NM  4 (Full Validation)  P  Request ID  S  S  S  S  S  S  S  S  S  S  S  S  S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | Nain-OT-Custody<br>Souder Willer & Associates | Chain-or-Custody Record  F. Solder Miller & Associates | <u>:</u><br>:                   |                 |           |                |          | Ì       | ALL      | Z       | /IR      | Z        | HALL ENVIRONMENTAL | A        | · · · · · · · · · · · · · · · · · · · | nece.            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------|--------------------------------------------------------|---------------------------------|-----------------|-----------|----------------|----------|---------|----------|---------|----------|----------|--------------------|----------|---------------------------------------|------------------|
| 201 S Halagueno Carisbad, NM  The Continue Project Range:  Sample Request ID  Type and # Type P3  Sample Request ID  Type and # Type P3  Type P3  Type Type Type Type Type Type Type Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3     |                                               | Sociation                                              |                                 | Rush            |           |                |          | Z       |          | ZZI     | S        | <b>P</b> | 8                  | <b>6</b> | <b>&gt;</b>                           | ivel             |
| 201 S Halagueno Carteback NM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                               |                                                        | Project Name:                   |                 |           |                |          | ≶       | ww.hall  | environ | ımental  | Lcom     |                    |          |                                       | ı vy             |
| Tel. 505-345-4107   Tel.   | dres  | 201                                           | alagueno Carlsbad, NM                                  | Free Jai                        |                 | nnof 2014 | -1             | 4901 F   | ławkin₃ |          | Albuqu  | erque,   | NM 8     | 7109               |          |                                       | UUD              |
| Contain   Project Manager:   Contain   Project Manager:   Contain   Project Manager:   Contain   Project Manager:   Contain    |       |                                               |                                                        | Project 来:                      |                 |           |                | Tel. 5   | 05-345  | -3975    | Fax     | 505-3    | 45-410   | 7                  |          |                                       | . 9/1            |
| Container   Container   Project Manager:   Container   |       | 575 689                                       | 7040                                                   |                                 |                 |           |                |          |         | A        | nalysis | Redu     | est      |                    |          |                                       | 0/2              |
| Dother   Sample Request   Dother   Sample Temperature   LACC      | ax#   | austin.w                                      | eyant@soudermiller.com                                 | Project Manager:                |                 |           |                |          |         |          |         |          | -        |                    |          |                                       | <i>∪</i>         |
| Dother Sample Request ID Type and # Type [COTA]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ckage |                                               |                                                        |                                 |                 |           |                |          |         |          |         |          |          |                    |          |                                       | 7:30             |
| Other   Sampler Light   Ligh   | p     |                                               | ☐ Level 4 (Full Validation)                            | Austin Weyant                   |                 |           |                |          |         |          |         |          |          |                    |          |                                       | 9.21             |
| Natrix Sample Request ID Type and # Type (Container Preservative (COTAD)   1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | tion: | C<br>C                                        |                                                        | r LCJ                           |                 | Ÿ.        | l îst          |          |         |          |         |          |          | · · ·              |          | (N 1                                  |                  |
| Matrix Sample Request ID Container Preservative HEALNO. 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Vpe   | ]                                             |                                                        | Sample Temperatu                |                 | 7.400     | <b>31</b> (30) | 2        |         |          |         |          |          |                    |          | o Y)                                  |                  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Time  | l                                             |                                                        | Container Presk<br>Type and # T | srvative<br>ype | HEAL NO.  |                |          |         |          |         |          |          |                    |          | səlddu8 1iA                           |                  |
| P 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7,00  |                                               | Td.                                                    | 402                             |                 | ) =       | x              | <u>۲</u> |         |          |         |          |          |                    |          | _                                     |                  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -                                             | 20                                                     |                                 |                 | 200-      | <u> </u>       |          |         |          |         |          |          |                    | tur"     | <u> </u>                              |                  |
| Received by      | 2     | 4                                             | / p3                                                   | 1                               |                 | 189       | <u> </u>       |          | _       |          |         | _        |          |                    | ,        |                                       |                  |
| Relinguished by:  Received by:  Date Time Remarks: email results to lucas.middleton@soudermiller.com and if a contract the soult by the soult be sould  |       |                                               |                                                        |                                 |                 |           |                |          |         |          |         |          |          |                    |          |                                       |                  |
| Relinguished by         Received by         Date Time         Remarks: email results to lucas.middleton@soudermiller.com and its Ann OT   2.6   16 \ loco                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |                                               |                                                        |                                 |                 |           |                |          |         |          |         |          | -        |                    |          |                                       |                  |
| Relinguished by:  Received by:  Received by:  Received by:  Received by:  Received by:  Date Time Remarks: email results to lucas.middleton@soudermiller.com and it and it are time on a factor of the second of the |       |                                               |                                                        |                                 |                 |           |                |          |         |          |         |          |          |                    | 1        | +                                     |                  |
| Received by   Received by   Date Time   Remarks: email results to lucas.middleton@soudermiller.com and F   Relinquished by:   Date Time    |       |                                               |                                                        |                                 |                 |           |                |          |         |          |         |          |          |                    |          |                                       |                  |
| Received by Bate Time Remarks: email results to lucas.middleton@soudermiller.com and Bate Time Relinquished by:  Received by:  Received by:  CANN Man O7   26   16   600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                               |                                                        |                                 |                 |           |                |          |         |          |         |          |          |                    |          |                                       |                  |
| Received by:  Re |       |                                               |                                                        |                                 |                 |           |                |          |         |          |         |          | $\dashv$ |                    |          |                                       | -,               |
| Received by:  Re |       |                                               |                                                        | ,                               |                 |           |                | -        |         |          | -       |          | -        |                    |          |                                       |                  |
| Relinquished by:  Date Time  OAN / Ann O7   26   16 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | Reling                                        | ned by                                                 | Received by                     | 1               |           |                | arks: e  | mail re | sults to | lucas.n | niddletc | on@so    | udermi             | ller.cor | n and                                 | n <del>e -</del> |
| LI 1 - arm/mm 07/26/16 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | je:   | Relinquist                                    | and by:                                                |                                 |                 | 1         | 1              | ٠        |         |          |         |          |          |                    |          |                                       | rag              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3     | $\frac{\tilde{\omega}}{A}$                    | 11                                                     | //                              | 5               |           |                |          |         |          |         |          |          |                    |          |                                       | e 38             |



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 10, 2019

Melodie Sanjari Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: Janie Connor BG JC BG OrderNo.: 1904173

#### Dear Melodie Sanjari:

Hall Environmental Analysis Laboratory received 22 sample(s) on 4/3/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT:

**Analyses** 

**Batch ID** 

#### **Analytical Report**

Lab Order: **1904173**Date Reported: **4/10/2019** 

#### Hall Environmental Analysis Laboratory, Inc.

Souder, Miller & Associates

**Lab Order:** 1904173

RL Qual Units DF Date Analyzed

| Project: | Janie Connor BG JC BG |
|----------|-----------------------|
|          |                       |

**Lab ID:** 1904173-001 **Collection Date:** 4/2/2019 9:30:00 AM

Result

Client Sample ID: JC-2' Matrix: SOIL

EPA METHOD 300.0: ANIONS Analyst: CJS

Chloride 990 60 mg/Kg 20 4/6/2019 5:35:25 PM 44170

**Lab ID:** 1904173-003 **Collection Date:** 4/2/2019 9:50:00 AM

Client Sample ID: JC-6' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Chloride

290

60

mg/Kg

20

4/6/2019 5:47:50 PM

44170

**Lab ID:** 1904173-005 **Collection Date:** 4/2/2019 10:10:00 AM

Client Sample ID: JC-10' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Chloride

Analyst: CJS

Make to the control of the cont

**Lab ID:** 1904173-006 **Collection Date:** 4/2/2019 10:20:00 AM

Client Sample ID: JC-12' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Chloride

Analyst: CJS

mg/Kg 20 4/6/2019 6:37:29 PM 44170

**Lab ID:** 1904173-007 **Collection Date:** 4/2/2019 10:45:00 AM

Client Sample ID: JC2-2' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CJS

Chloride 170 60 mg/Kg 20 4/6/2019 6:49:54 PM 44170

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

W Sample container temperature is out of limit as specified at testcode

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

#### **Analytical Report**

Lab Order: **1904173**Date Reported: **4/10/2019** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Lab Order: 1904173

**Project:** Janie Connor BG JC BG

**Lab ID:** 1904173-009 **Collection Date:** 4/2/2019 10:55:00 AM

Client Sample ID: JC2-6' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: CJS

 Chloride
 190
 60
 mg/Kg
 20
 4/6/2019 7:02:18 PM
 44170

**Lab ID:** 1904173-011 **Collection Date:** 4/2/2019 11:05:00 AM

Client Sample ID: JC2-10' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Chloride

Analyst: CJS

mg/Kg 20 4/6/2019 7:14:43 PM 44170

**Lab ID:** 1904173-012 **Collection Date:** 4/2/2019 11:30:00 AM

Client Sample ID: JC3-2' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: smb

 Chloride
 4900
 150
 mg/Kg
 50
 4/8/2019 4:20:17 PM
 44170

**Lab ID:** 1904173-013 **Collection Date:** 4/2/2019 11:35:00 AM

Client Sample ID: JC3-4' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: CJS

 Chloride
 2200
 60
 mg/Kg
 20
 4/6/2019 8:04:23 PM
 44170

**Lab ID:** 1904173-014 **Collection Date:** 4/2/2019 11:45:00 AM

Client Sample ID: JC3-6' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CJS

Chloride 1400 60 mg/Kg 20 4/6/2019 8:16:48 PM 44170

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

W Sample container temperature is out of limit as specified at testcode

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Client Sample ID: JC4-6'

**EPA METHOD 300.0: ANIONS** 

**Analyses** 

Chloride

**CLIENT:** 

**Analytical Report** 

Lab Order:

Matrix: SOIL

RL Qual Units DF Date Analyzed

Lab Order: 1904173 Date Reported: 4/10/2019

1904173

#### Hall Environmental Analysis Laboratory, Inc.

Souder, Miller & Associates

Janie Connor BG JC BG **Project:** Lab ID: 1904173-016 **Collection Date:** 4/2/2019 11:55:00 AM Client Sample ID: JC3-10' Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: CJS Chloride 750 59 20 4/6/2019 8:29:12 PM 44170 mg/Kg Lab ID: 1904173-018 **Collection Date:** 4/2/2019 12:10:00 PM Client Sample ID: JC4-2' Matrix: SOIL Result RL Qual Units DF Date Analyzed **Analyses Batch ID EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 9900 600 mg/Kg 200 4/8/2019 4:32:42 PM 44170 Lab ID: 1904173-020 **Collection Date:** 4/2/2019 12:30:00 PM

**EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 4900 150 mg/Kg 4/8/2019 4:45:07 PM 44170 Lab ID: 1904173-022 **Collection Date:** 4/2/2019 12:50:00 PM Client Sample ID: JC4-10' Matrix: SOIL Result **Analyses RL Qual Units DF** Date Analyzed **Batch ID** 

Result

mg/Kg

150

3600

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Holding times for preparation or analysis exceeded

POL Practical Quanitative Limit

Sample container temperature is out of limit as specified at testcode

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit **Batch ID** 

Analyst: smb

44170

50 4/8/2019 5:22:22 PM

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1904173** 

10-Apr-19

Client: Souder, Miller & Associates

Project: Janie Connor BG JC BG

Sample ID: MB-44170 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 44170 RunNo: 58961

Prep Date: 4/6/2019 Analysis Date: 4/6/2019 SeqNo: 1983371 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-44170 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 44170 RunNo: 58961

Prep Date: 4/6/2019 Analysis Date: 4/6/2019 SeqNo: 1983373 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.4 90 110

#### Qualifiers:

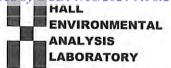
H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

W Sample container temperature is out of limit as specified at testcode

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

## Sample Log-In Check List

| Client Name:                            | SMA-CAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LSBAD           | Work             | Order Number  | : 190  | 4173     |         |             | RcptNo:                 | 1                |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|---------------|--------|----------|---------|-------------|-------------------------|------------------|
| Received By:                            | Yazmine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Garduno         | 4/3/201          | 9 8:50:00 AM  |        |          | nfanjai | ri lefnderi | Į.                      |                  |
| Completed By:                           | Erin Mele                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | endrez          | 4/3/201          | 9 10:38:56 AM |        |          | Magain  | 111         | 2                       |                  |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1/3/19          | 3-19             | - 10.30.30 AW |        |          |         |             |                         |                  |
| Chain of Cus                            | tody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                  |               |        |          |         |             |                         |                  |
| 1. Is Chain of C                        | ustody comp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | olete?          |                  |               | Yes    | ~        | No      |             | Not Present             |                  |
| 2. How was the                          | sample deliv                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | vered?          |                  |               | Cou    | rier     |         |             |                         |                  |
| Log In                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                  |               |        |          |         |             |                         |                  |
| 3. Was an attern                        | npt made to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | cool the samp   | oles?            |               | Yes    | <b>/</b> | No      |             | NA 🗆                    |                  |
| 4. Were all samp                        | oles received                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | l at a tempera  | ature of >0° C t | to 6.0°C      | Yes    | <b>V</b> | No      |             | NA 🗆                    |                  |
| 5. Sample(s) in p                       | proper conta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | iner(s)?        |                  |               | Yes    | ~        | No      |             |                         |                  |
| 6. Sufficient sam                       | ple volume f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | for indicated t | est(s)?          |               | Yes    | ~        | No      |             |                         |                  |
| 7. Are samples (                        | except VOA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | and ONG) pr     | operly preserve  | ed?           | Yes    | <b>V</b> | No      |             |                         |                  |
| 8. Was preserva                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                  |               | Yes    |          | No      | V           | NA 🗆                    |                  |
| 9. VOA vials hav                        | e zero heads                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | space?          |                  |               | Yes    |          | No      |             | No VOA Vials            |                  |
| 0. Were any san                         | nple containe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ers received b  | oroken?          |               | Yes    |          | No      | ~           | # of preserved          |                  |
| 1. Does paperwo<br>(Note discrepa       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 | <i>(</i> )       |               | Yes    | <b>✓</b> | No      |             | bottles checked for pH. | 12 unless noted) |
| 2. Are matrices of                      | correctly iden                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | tified on Chai  | in of Custody?   |               | Yes    | ~        | No      |             | Adjusted?               |                  |
| 3. Is it clear what                     | t analyses we                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ere requested   | 1?               |               | Yes    | <b>V</b> | No      |             |                         |                  |
| 4. Were all holdin<br>(If no, notify cu |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                  |               | Yes    | <b>V</b> | No      |             | Checked by: )           | X 4-5-           |
| Special Handli                          | ing (if app                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | olicable)       |                  |               |        |          |         |             |                         |                  |
| 15. Was client no                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 | with this order? |               | Yes    |          | No      |             | NA 🗹                    |                  |
| Person                                  | Notified:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                  | Date:         | _      |          |         | _           |                         |                  |
| By Who                                  | m:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | T               |                  | Via:          | _ eM   | ail 🔲    | Phone [ | Fax         | ☐ In Person             |                  |
| Regardi                                 | ing:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                  |               |        |          |         |             |                         |                  |
| Client Ir                               | nstructions:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                  |               | _      |          |         |             |                         |                  |
| 16. Additional rer                      | marks:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                  |               |        |          |         |             |                         |                  |
| 17. Cooler Infor                        | mation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                  |               |        |          |         |             |                         |                  |
| Cooler No                               | The state of the s | Condition       | Seal Intact      | Seal No S     | Seal D | ate      | Signed  | Bv          | I .                     |                  |
| 1                                       | 2.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Good            | Yes              |               |        | 317      | - 3,100 | -,          |                         |                  |
| 2                                       | 2.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Good            | Yes              |               |        |          |         |             |                         |                  |
| 3                                       | 5.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Good            | Yes              |               |        |          |         |             |                         |                  |

| Chain-of-C                   | Chain-of-Custody Record     | Turn-Around Time:          | Ime:                 |             |          |                    | -       | 100             |                   | MINA      | COL                       | -                      |          |
|------------------------------|-----------------------------|----------------------------|----------------------|-------------|----------|--------------------|---------|-----------------|-------------------|-----------|---------------------------|------------------------|----------|
| Client:                      | Carl Stord.                 | □ Standard                 | Rush W               | Sday        |          |                    | _ 9     | ANAL            |                   | VSTS      | ¥ _                       | CATE I ABODATOD        | . >      |
|                              |                             | Project Name:              |                      |             |          |                    | 6       | 100000          |                   |           | o lotada                  |                        |          |
| Mailing Address:             |                             | - Shi                      |                      | onnor BG    |          | 4901               | Hawk    | 4901 Hawkins NF | 1 2               | high      | www.naiienvironmentai.com | Shirpinergile NM 87109 | CD: 9    |
|                              |                             | Project #:                 |                      | (JC-B       | (5       | Tel.               | 505-34  | 505-345-3975    | 10                | Fax       | 505-345-4107              | 4107                   | /18/2    |
| Phone #:                     |                             |                            |                      |             |          |                    |         |                 | Ana               |           | Request                   |                        | 2024     |
| email or Fax#:               |                             | Project Manager:           | iger:                |             | ()       | (0                 |         |                 | <sup>⊅</sup> O    |           | (tr                       |                        | 9:3      |
| QA/QC Package:<br>☐ Standard | ☐ Level 4 (Full Validation) | Melode                     | ode Sa               | e Sanjani   | .S08) s' |                    | 1 E 200 | SMISO           | PO4, S            |           | iəsdA\tr                  |                        | 6:21 AN  |
| on:                          | ☐ Az Compliance             | Sampler: N.P.              | (P.S                 | 2           | AMT      | 1, 1, 4,           |         | 728 7           | 'SON              |           |                           |                        | <b>1</b> |
| □ EDD (Type)                 |                             | # of Coolers:              | W res                | ON          | / 3E \   |                    |         |                 |                   | Quarter 1 |                           |                        |          |
|                              |                             | Cooler Temp(including cF): | (including CF): 7    | 16,289,56   | Б<br>ЭТМ |                    |         |                 |                   | _         |                           |                        |          |
| Date Time Matrix             | Sample Name                 | Container<br>Type and #    | Preservative<br>Type | IG HEAL NO. | \ X3T8   | 108:H9T<br>99 1808 | EDB (M  | d sHAG          | 8 АЯЭЯ<br>Сі)F, В | 00 (V     | 8270 (Se<br>Total Co      |                        |          |
| 19:30                        | JC-21                       | 402.                       |                      | 100-        |          |                    |         |                 | /                 | -         |                           |                        |          |
| 35.6                         | JC-41                       |                            |                      | -(0)        |          | 0                  | 4       | E               | IN                | 7         | 2                         |                        |          |
| 25:6                         | JC-10 ₹                     |                            |                      | -003        |          |                    |         |                 | >                 |           |                           |                        |          |
| 00:01                        | JC -81                      |                            |                      | 150         |          | V                  | W       | SA              | 14                | 1         | 7 5                       |                        |          |
| 01:01                        | JC - 101                    |                            |                      | 2005        |          | H                  |         |                 | 7                 |           |                           |                        |          |
| 07:01                        | 10,12,                      |                            |                      | 200-        |          |                    |         | $\vdash$        | 7                 |           |                           |                        |          |
|                              |                             |                            |                      |             |          |                    |         |                 |                   |           |                           |                        |          |
|                              |                             |                            |                      |             |          | -                  |         |                 |                   |           |                           |                        |          |
|                              |                             |                            |                      |             |          |                    |         |                 |                   |           |                           |                        |          |
|                              |                             |                            |                      |             |          |                    |         |                 |                   |           |                           |                        |          |
|                              |                             |                            |                      |             |          |                    |         |                 |                   |           |                           |                        |          |
| Dale: Time: Relinquished by: | led by:                     | Received by:               | Via:                 | Date Time   | Remarks. | - Jarko.           |         |                 |                   |           |                           |                        |          |
| 19 142                       | - In                        | K                          | 1                    | 413         |          | Mate               | to      | 1               |                   |           |                           |                        | Pa       |
| Date: Time: Relinquist       | hed by: V                   | Received by:               | Via:                 | Date Time   | R        |                    |         |                 |                   |           |                           |                        | ge 392   |
|                              |                             | 1                          | 2                    |             |          |                    |         |                 |                   |           |                           |                        |          |

| Client:        | 3                | SMA              | # PMA - Canspad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Standard                   | Rush                 | Sday        |          |                            | Ī                | HALL     | EN                | M                 | HALL ENVIRONMENTAL                                       | ENTAL |
|----------------|------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------|-------------|----------|----------------------------|------------------|----------|-------------------|-------------------|----------------------------------------------------------|-------|
|                |                  |                  | )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Project Name:              |                      |             |          |                            |                  | A WW     | 0                 |                   | ADOR                                                     | AIOR  |
| Mailing        | Mailing Address: |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            | me Jane              | Conner      | BG.      | www.iis<br>4901 Hawkins NF | w sukins         | NW.IId   | Albur             | ionine            | www.nanenvironmental.com<br>ns NF - Albuquerane NM 87109 | g     |
|                |                  |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Project #:                 |                      | (Jr-RK)     |          | Tel 50                     | Tel 505-345-3975 | 3975     | T T               | 44514<br>x 505    | Eax 505-345-4107                                         | 2     |
| Phone #:       | 41.              |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                      | (h ? )      |          |                            |                  | A.       | Analysis Request  | is Red            | nest                                                     |       |
| email or Fax#: | · Fax#:          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Project Manager            | ager:                |             | _        | (0                         |                  |          | ÞΟ                |                   | (tr                                                      |       |
| QA/QC Packa    | QA/QC Package:   |                  | ☐ Level 4 (Full Validation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            | Metodie Sanjari      | 2 ari       | \208) s' | PCB's                      | SINISC           | SWISC    | PO4, S            |                   | ıəsdA\tı                                                 |       |
| Accreditation: | tation:          | ☐ Az Co          | ☐ Az Compliance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sampler: N                 | U.P.S                | . Z         |          | 12/4-12-02                 |                  | 170 "    | NO <sup>5</sup> ' | (/                |                                                          |       |
| □ EDD (Type)   | (Type)           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | olers                      | 27                   |             |          |                            |                  |          |                   |                   |                                                          |       |
|                |                  |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Cooler Temp(including CF). | O(including CF): 7.1 | 15, 8. 212. |          |                            |                  |          |                   |                   |                                                          |       |
| Date           | Time             | Matrix           | Sample Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Container<br>Type and #    | Preservative 10      | G DU 173    |          |                            | EDB (I           | RCRA     |                   | ) 0928<br>3) 0728 |                                                          |       |
| 4/2/18         | 10:45            | 長                | 162-31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | gr.                        | - 1                  | 1007        |          |                            | 1                |          | 11                |                   | _                                                        |       |
| -              | 25:01            | -                | 162-41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            | 1                    | 800         |          | 2                          | B                | 14 H     | . 1               | 7                 | 3                                                        |       |
|                | 50.05            | _                | 162-lei                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            | Ī                    | POO         |          |                            |                  |          | 1                 |                   |                                                          |       |
|                | 11:00            |                  | JC2 181                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            | Ī                    | 010         |          | 74                         | F FS             | 14       |                   | 4                 | 500                                                      |       |
|                | 11:05            |                  | JCZ1,01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            | )                    | 110         |          |                            |                  |          | 7                 |                   |                                                          |       |
| 7              |                  | 8                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0                          |                      |             |          |                            |                  |          |                   |                   |                                                          |       |
|                |                  |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                      |             |          |                            |                  |          |                   |                   |                                                          |       |
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 06, 2019

Melodie Sanjari Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: FAX

RE: Janie Conner OrderNo.: 1904D89

#### Dear Melodie Sanjari:

Hall Environmental Analysis Laboratory received 9 sample(s) on 4/30/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Bules

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/6/2019

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW1

**Project:** Janie Conner
 Collection Date: 4/25/2019 4:50:00 AM

 **Lab ID:** 1904D89-001
 Matrix: SOIL
 Received Date: 4/30/2019 9:00:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed       | Batch |
|--------------------------------------|--------|----------|------------|----|---------------------|-------|
| EPA METHOD 300.0: ANIONS             |        |          |            |    | Analyst             | MRA   |
| Chloride                             | 150    | 60       | mg/Kg      | 20 | 5/1/2019 4:21:45 PM | 44638 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |            |    | Analyst             | : TOM |
| Diesel Range Organics (DRO)          | ND     | 9.7      | mg/Kg      | 1  | 5/1/2019 4:57:06 PM | 44624 |
| Motor Oil Range Organics (MRO)       | ND     | 48       | mg/Kg      | 1  | 5/1/2019 4:57:06 PM | 44624 |
| Surr: DNOP                           | 99.1   | 70-130   | %Rec       | 1  | 5/1/2019 4:57:06 PM | 44624 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst             | : NSB |
| Gasoline Range Organics (GRO)        | ND     | 5.0      | mg/Kg      | 1  | 5/1/2019 9:27:27 PM | 44616 |
| Surr: BFB                            | 91.3   | 73.8-119 | %Rec       | 1  | 5/1/2019 9:27:27 PM | 44616 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst             | : NSB |
| Benzene                              | ND     | 0.025    | mg/Kg      | 1  | 5/1/2019 9:27:27 PM | 44616 |
| Toluene                              | ND     | 0.050    | mg/Kg      | 1  | 5/1/2019 9:27:27 PM | 44616 |
| Ethylbenzene                         | ND     | 0.050    | mg/Kg      | 1  | 5/1/2019 9:27:27 PM | 44616 |
| Xylenes, Total                       | ND     | 0.10     | mg/Kg      | 1  | 5/1/2019 9:27:27 PM | 44616 |
| Surr: 4-Bromofluorobenzene           | 91.7   | 80-120   | %Rec       | 1  | 5/1/2019 9:27:27 PM | 44616 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 13

Date Reported: 5/6/2019

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW2

**Project:** Janie Conner
 Collection Date: 4/25/2019 4:30:00 AM

 **Lab ID:** 1904D89-002
 Matrix: SOIL
 Received Date: 4/30/2019 9:00:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed       | Batch |
|--------------------------------------|--------|----------|------------|----|---------------------|-------|
| EPA METHOD 300.0: ANIONS             |        |          |            |    | Analyst             | MRA   |
| Chloride                             | 530    | 60       | mg/Kg      | 20 | 5/1/2019 4:34:10 PM | 44638 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |            |    | Analyst             | : TOM |
| Diesel Range Organics (DRO)          | ND     | 9.4      | mg/Kg      | 1  | 5/1/2019 5:19:12 PM | 44624 |
| Motor Oil Range Organics (MRO)       | ND     | 47       | mg/Kg      | 1  | 5/1/2019 5:19:12 PM | 44624 |
| Surr: DNOP                           | 96.8   | 70-130   | %Rec       | 1  | 5/1/2019 5:19:12 PM | 44624 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst             | : NSB |
| Gasoline Range Organics (GRO)        | ND     | 4.8      | mg/Kg      | 1  | 5/1/2019 9:50:59 PM | 44616 |
| Surr: BFB                            | 93.1   | 73.8-119 | %Rec       | 1  | 5/1/2019 9:50:59 PM | 44616 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst             | : NSB |
| Benzene                              | ND     | 0.024    | mg/Kg      | 1  | 5/1/2019 9:50:59 PM | 44616 |
| Toluene                              | ND     | 0.048    | mg/Kg      | 1  | 5/1/2019 9:50:59 PM | 44616 |
| Ethylbenzene                         | ND     | 0.048    | mg/Kg      | 1  | 5/1/2019 9:50:59 PM | 44616 |
| Xylenes, Total                       | ND     | 0.095    | mg/Kg      | 1  | 5/1/2019 9:50:59 PM | 44616 |
| Surr: 4-Bromofluorobenzene           | 91.3   | 80-120   | %Rec       | 1  | 5/1/2019 9:50:59 PM | 44616 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 13

Date Reported: 5/6/2019

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW3

**Project:** Janie Conner
 Collection Date: 4/25/2019 12:00:00 PM

 **Lab ID:** 1904D89-003
 Matrix: SOIL
 Received Date: 4/30/2019 9:00:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed        | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS             |        |          |            |    | Analyst:             | MRA   |
| Chloride                             | 370    | 60       | mg/Kg      | 20 | 5/1/2019 4:46:35 PM  | 44638 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |            |    | Analyst              | TOM   |
| Diesel Range Organics (DRO)          | ND     | 8.7      | mg/Kg      | 1  | 5/1/2019 5:41:32 PM  | 44624 |
| Motor Oil Range Organics (MRO)       | ND     | 44       | mg/Kg      | 1  | 5/1/2019 5:41:32 PM  | 44624 |
| Surr: DNOP                           | 95.2   | 70-130   | %Rec       | 1  | 5/1/2019 5:41:32 PM  | 44624 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst:             | NSB   |
| Gasoline Range Organics (GRO)        | ND     | 4.8      | mg/Kg      | 1  | 5/1/2019 11:01:26 PM | 44616 |
| Surr: BFB                            | 91.3   | 73.8-119 | %Rec       | 1  | 5/1/2019 11:01:26 PM | 44616 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst:             | NSB   |
| Benzene                              | ND     | 0.024    | mg/Kg      | 1  | 5/1/2019 11:01:26 PM | 44616 |
| Toluene                              | ND     | 0.048    | mg/Kg      | 1  | 5/1/2019 11:01:26 PM | 44616 |
| Ethylbenzene                         | ND     | 0.048    | mg/Kg      | 1  | 5/1/2019 11:01:26 PM | 44616 |
| Xylenes, Total                       | ND     | 0.097    | mg/Kg      | 1  | 5/1/2019 11:01:26 PM | 44616 |
| Surr: 4-Bromofluorobenzene           | 91.2   | 80-120   | %Rec       | 1  | 5/1/2019 11:01:26 PM | 44616 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/6/2019

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW4

**Project:** Janie Conner
 Collection Date: 4/25/2019 12:30:00 PM

 **Lab ID:** 1904D89-004
 Matrix: SOIL
 Received Date: 4/30/2019 9:00:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed        | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS             |        |          |            |    | Analyst              | MRA   |
| Chloride                             | 550    | 60       | mg/Kg      | 20 | 5/1/2019 4:59:00 PM  | 44638 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |            |    | Analyst              | TOM   |
| Diesel Range Organics (DRO)          | ND     | 9.8      | mg/Kg      | 1  | 5/1/2019 6:03:52 PM  | 44624 |
| Motor Oil Range Organics (MRO)       | ND     | 49       | mg/Kg      | 1  | 5/1/2019 6:03:52 PM  | 44624 |
| Surr: DNOP                           | 94.4   | 70-130   | %Rec       | 1  | 5/1/2019 6:03:52 PM  | 44624 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst              | NSB   |
| Gasoline Range Organics (GRO)        | ND     | 5.0      | mg/Kg      | 1  | 5/1/2019 11:24:51 PM | 44616 |
| Surr: BFB                            | 89.5   | 73.8-119 | %Rec       | 1  | 5/1/2019 11:24:51 PM | 44616 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst              | NSB   |
| Benzene                              | ND     | 0.025    | mg/Kg      | 1  | 5/1/2019 11:24:51 PM | 44616 |
| Toluene                              | ND     | 0.050    | mg/Kg      | 1  | 5/1/2019 11:24:51 PM | 44616 |
| Ethylbenzene                         | ND     | 0.050    | mg/Kg      | 1  | 5/1/2019 11:24:51 PM | 44616 |
| Xylenes, Total                       | ND     | 0.10     | mg/Kg      | 1  | 5/1/2019 11:24:51 PM | 44616 |
| Surr: 4-Bromofluorobenzene           | 90.2   | 80-120   | %Rec       | 1  | 5/1/2019 11:24:51 PM | 44616 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/6/2019

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW5

**Project:** Janie Conner
 Collection Date: 4/26/2019 11:00:00 AM

 **Lab ID:** 1904D89-005
 Matrix: SOIL
 Received Date: 4/30/2019 9:00:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed        | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS             |        |          |            |    | Analyst              | : MRA |
| Chloride                             | 1200   | 60       | mg/Kg      | 20 | 5/1/2019 7:15:29 PM  | 44662 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |            |    | Analyst              | : TOM |
| Diesel Range Organics (DRO)          | ND     | 9.1      | mg/Kg      | 1  | 5/1/2019 6:26:16 PM  | 44624 |
| Motor Oil Range Organics (MRO)       | ND     | 45       | mg/Kg      | 1  | 5/1/2019 6:26:16 PM  | 44624 |
| Surr: DNOP                           | 95.7   | 70-130   | %Rec       | 1  | 5/1/2019 6:26:16 PM  | 44624 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst              | : NSB |
| Gasoline Range Organics (GRO)        | ND     | 5.0      | mg/Kg      | 1  | 5/1/2019 11:48:23 PM | 44616 |
| Surr: BFB                            | 91.8   | 73.8-119 | %Rec       | 1  | 5/1/2019 11:48:23 PM | 44616 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst              | : NSB |
| Benzene                              | ND     | 0.025    | mg/Kg      | 1  | 5/1/2019 11:48:23 PM | 44616 |
| Toluene                              | ND     | 0.050    | mg/Kg      | 1  | 5/1/2019 11:48:23 PM | 44616 |
| Ethylbenzene                         | ND     | 0.050    | mg/Kg      | 1  | 5/1/2019 11:48:23 PM | 44616 |
| Xylenes, Total                       | ND     | 0.099    | mg/Kg      | 1  | 5/1/2019 11:48:23 PM | 44616 |
| Surr: 4-Bromofluorobenzene           | 92.6   | 80-120   | %Rec       | 1  | 5/1/2019 11:48:23 PM | 44616 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/6/2019

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH1

**Project:** Janie Conner
 Collection Date: 4/25/2019 5:00:00 AM

 **Lab ID:** 1904D89-006
 Matrix: SOIL
 Received Date: 4/30/2019 9:00:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed        | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS             |        |          |            |    | Analyst              | MRA   |
| Chloride                             | 470    | 60       | mg/Kg      | 20 | 5/1/2019 7:52:42 PM  | 44662 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |            |    | Analyst              | TOM   |
| Diesel Range Organics (DRO)          | ND     | 8.8      | mg/Kg      | 1  | 5/1/2019 6:48:17 PM  | 44624 |
| Motor Oil Range Organics (MRO)       | ND     | 44       | mg/Kg      | 1  | 5/1/2019 6:48:17 PM  | 44624 |
| Surr: DNOP                           | 94.8   | 70-130   | %Rec       | 1  | 5/1/2019 6:48:17 PM  | 44624 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst              | NSB   |
| Gasoline Range Organics (GRO)        | ND     | 4.9      | mg/Kg      | 1  | 5/2/2019 12:11:56 AM | 44616 |
| Surr: BFB                            | 89.0   | 73.8-119 | %Rec       | 1  | 5/2/2019 12:11:56 AM | 44616 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst              | NSB   |
| Benzene                              | ND     | 0.024    | mg/Kg      | 1  | 5/2/2019 12:11:56 AM | 44616 |
| Toluene                              | ND     | 0.049    | mg/Kg      | 1  | 5/2/2019 12:11:56 AM | 44616 |
| Ethylbenzene                         | ND     | 0.049    | mg/Kg      | 1  | 5/2/2019 12:11:56 AM | 44616 |
| Xylenes, Total                       | ND     | 0.098    | mg/Kg      | 1  | 5/2/2019 12:11:56 AM | 44616 |
| Surr: 4-Bromofluorobenzene           | 88.2   | 80-120   | %Rec       | 1  | 5/2/2019 12:11:56 AM | 44616 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/6/2019

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH2

**Project:** Janie Conner
 Collection Date: 4/25/2019 11:45:00 AM

 **Lab ID:** 1904D89-007
 Matrix: SOIL
 Received Date: 4/30/2019 9:00:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed        | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS             |        |          |            |    | Analyst              | MRA   |
| Chloride                             | 2300   | 150      | mg/Kg      | 50 | 5/2/2019 5:03:12 PM  | 44662 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |            |    | Analyst              | : TOM |
| Diesel Range Organics (DRO)          | ND     | 10       | mg/Kg      | 1  | 5/1/2019 7:10:44 PM  | 44624 |
| Motor Oil Range Organics (MRO)       | ND     | 50       | mg/Kg      | 1  | 5/1/2019 7:10:44 PM  | 44624 |
| Surr: DNOP                           | 94.4   | 70-130   | %Rec       | 1  | 5/1/2019 7:10:44 PM  | 44624 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst              | : NSB |
| Gasoline Range Organics (GRO)        | ND     | 4.9      | mg/Kg      | 1  | 5/2/2019 12:35:23 AM | 44616 |
| Surr: BFB                            | 93.2   | 73.8-119 | %Rec       | 1  | 5/2/2019 12:35:23 AM | 44616 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst              | : NSB |
| Benzene                              | ND     | 0.025    | mg/Kg      | 1  | 5/2/2019 12:35:23 AM | 44616 |
| Toluene                              | ND     | 0.049    | mg/Kg      | 1  | 5/2/2019 12:35:23 AM | 44616 |
| Ethylbenzene                         | ND     | 0.049    | mg/Kg      | 1  | 5/2/2019 12:35:23 AM | 44616 |
| Xylenes, Total                       | ND     | 0.099    | mg/Kg      | 1  | 5/2/2019 12:35:23 AM | 44616 |
| Surr: 4-Bromofluorobenzene           | 94.1   | 80-120   | %Rec       | 1  | 5/2/2019 12:35:23 AM | 44616 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/6/2019

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH3

**Project:** Janie Conner
 Collection Date: 4/25/2019 4:15:00 AM

 **Lab ID:** 1904D89-008
 Matrix: SOIL
 Received Date: 4/30/2019 9:00:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed        | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS             |        |          |            |    | Analyst              | MRA   |
| Chloride                             | 1100   | 60       | mg/Kg      | 20 | 5/1/2019 9:07:10 PM  | 44662 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |            |    | Analyst              | : TOM |
| Diesel Range Organics (DRO)          | ND     | 9.2      | mg/Kg      | 1  | 5/1/2019 7:33:04 PM  | 44624 |
| Motor Oil Range Organics (MRO)       | ND     | 46       | mg/Kg      | 1  | 5/1/2019 7:33:04 PM  | 44624 |
| Surr: DNOP                           | 75.2   | 70-130   | %Rec       | 1  | 5/1/2019 7:33:04 PM  | 44624 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst              | NSB   |
| Gasoline Range Organics (GRO)        | ND     | 4.8      | mg/Kg      | 1  | 5/2/2019 12:58:39 AM | 44616 |
| Surr: BFB                            | 100    | 73.8-119 | %Rec       | 1  | 5/2/2019 12:58:39 AM | 44616 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst              | NSB   |
| Benzene                              | ND     | 0.024    | mg/Kg      | 1  | 5/2/2019 12:58:39 AM | 44616 |
| Toluene                              | ND     | 0.048    | mg/Kg      | 1  | 5/2/2019 12:58:39 AM | 44616 |
| Ethylbenzene                         | ND     | 0.048    | mg/Kg      | 1  | 5/2/2019 12:58:39 AM | 44616 |
| Xylenes, Total                       | ND     | 0.097    | mg/Kg      | 1  | 5/2/2019 12:58:39 AM | 44616 |
| Surr: 4-Bromofluorobenzene           | 99.3   | 80-120   | %Rec       | 1  | 5/2/2019 12:58:39 AM | 44616 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Souder, Miller & Associates Client Sample ID: BH4

**Project:** Janie Conner
 Collection Date: 4/26/2019 12:00:00 PM

 **Lab ID:** 1904D89-009
 Matrix: SOIL
 Received Date: 4/30/2019 9:00:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed       | Batch |
|--------------------------------------|--------|----------|------------|----|---------------------|-------|
| EPA METHOD 300.0: ANIONS             |        |          |            |    | Analyst             | MRA   |
| Chloride                             | 1400   | 59       | mg/Kg      | 20 | 5/1/2019 9:19:34 PM | 44662 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |            |    | Analyst             | : TOM |
| Diesel Range Organics (DRO)          | 31     | 9.3      | mg/Kg      | 1  | 5/7/2019 9:51:36 AM | 44736 |
| Motor Oil Range Organics (MRO)       | ND     | 47       | mg/Kg      | 1  | 5/7/2019 9:51:36 AM | 44736 |
| Surr: DNOP                           | 98.6   | 70-130   | %Rec       | 1  | 5/7/2019 9:51:36 AM | 44736 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst             | : NSB |
| Gasoline Range Organics (GRO)        | ND     | 5.0      | mg/Kg      | 1  | 5/2/2019 1:22:15 AM | 44616 |
| Surr: BFB                            | 97.0   | 73.8-119 | %Rec       | 1  | 5/2/2019 1:22:15 AM | 44616 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst             | : NSB |
| Benzene                              | ND     | 0.025    | mg/Kg      | 1  | 5/2/2019 1:22:15 AM | 44616 |
| Toluene                              | ND     | 0.050    | mg/Kg      | 1  | 5/2/2019 1:22:15 AM | 44616 |
| Ethylbenzene                         | ND     | 0.050    | mg/Kg      | 1  | 5/2/2019 1:22:15 AM | 44616 |
| Xylenes, Total                       | ND     | 0.10     | mg/Kg      | 1  | 5/2/2019 1:22:15 AM | 44616 |
| Surr: 4-Bromofluorobenzene           | 97.0   | 80-120   | %Rec       | 1  | 5/2/2019 1:22:15 AM | 44616 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

#: 1904D89 06-May-19

WO#:

Client: Souder, Miller & Associates

**Project:** Janie Conner

Sample ID: MB-44638 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **44638** RunNo: **59556** 

Prep Date: 5/1/2019 Analysis Date: 5/1/2019 SeqNo: 2007895 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-44638 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 44638 RunNo: 59556

Prep Date: 5/1/2019 Analysis Date: 5/1/2019 SeqNo: 2007896 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 97.8 90 110

Sample ID: MB-44662 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 44662 RunNo: 59556

Prep Date: 5/1/2019 Analysis Date: 5/1/2019 SeqNo: 2007930 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-44662 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 44662 RunNo: 59556

Prep Date: 5/1/2019 Analysis Date: 5/1/2019 SeqNo: 2007931 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.9 90 110

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1904D89** 

ry, Inc. 06-May-19

Client: Souder, Miller & Associates

**Project:** Janie Conner

Sample ID: LCS-44624 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 44624 RunNo: 59549

Prep Date: 4/30/2019 Analysis Date: 5/1/2019 SeqNo: 2006946 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) 48 10 50.00 0 96.3 63.9 124

 Diesel Range Organics (DRO)
 48
 10
 50.00
 0
 96.3
 63.9
 124

 Surr: DNOP
 3.8
 5.000
 75.6
 70
 130

Sample ID: MB-44624 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 44624 RunNo: 59549

Prep Date: 4/30/2019 Analysis Date: 5/1/2019 SeqNo: 2006948 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 8.2 10.00 81.9 70 130

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1904D89** 

06-May-19

Client: Souder, Miller & Associates

**Project:** Janie Conner

Sample ID: LCS-44616 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 44616 RunNo: 59560

Prep Date: 4/30/2019 Analysis Date: 5/1/2019 SeqNo: 2008126 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) 24 5.0 25.00 0 97.8 80.1 123

Gasoline Range Organics (GRO) 24 5.0 25.00 0 97.8 80.1 123 Surr: BFB 1000 1000 101 73.8 119

Sample ID: MB-44616 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 44616 RunNo: 59560

Prep Date: 4/30/2019 Analysis Date: 5/1/2019 SeqNo: 2008129 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 890 1000 88.9 73.8 119

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1904D89** *06-May-19* 

Client: Souder, Miller & Associates

**Project:** Janie Conner

Sample ID: LCS-44616 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 44616 RunNo: 59560 Prep Date: 4/30/2019 Analysis Date: 5/1/2019 SeqNo: 2008175 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene 0.91 0.025 1.000 0 91.0 80 120 Toluene 0.94 0.050 1.000 0 93.9 80 120 0.050 0 93.7 80 Ethylbenzene 0.94 1.000 120 0 Xylenes, Total 2.8 0.10 3.000 94.2 80 120 92.2 Surr: 4-Bromofluorobenzene 0.92 1.000 80 120

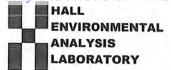
| Sample ID: MB-44616        | SampT      | ype: <b>ME</b> | BLK       | Tes         | tCode: El | PA Method | 8021B: Volat | iles |          |      |
|----------------------------|------------|----------------|-----------|-------------|-----------|-----------|--------------|------|----------|------|
| Client ID: PBS             | Batch      | n ID: 44       | 616       | F           | RunNo: 5  | 9560      |              |      |          |      |
| Prep Date: 4/30/2019       | Analysis D | Date: 5/       | 1/2019    | \$          | SeqNo: 2  | 008177    | Units: mg/K  | (g   |          |      |
| Analyte                    | Result     | PQL            | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit    | %RPD | RPDLimit | Qual |
| Benzene                    | ND         | 0.025          |           |             |           |           |              |      |          |      |
| Toluene                    | ND         | 0.050          |           |             |           |           |              |      |          |      |
| Ethylbenzene               | ND         | 0.050          |           |             |           |           |              |      |          |      |
| Xylenes, Total             | ND         | 0.10           |           |             |           |           |              |      |          |      |
| Surr: 4-Bromofluorobenzene | 0.89       |                | 1.000     |             | 89.2      | 80        | 120          |      |          |      |

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

#### Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 1904D89 RcptNo: 1 Received By: Isaiah Ortiz 4/30/2019 9:00:00 AM Completed By: Isaiah Ortiz 4/30/2019 9:15:28 AM Reviewed By: VVZ 4/30/19 1 B ENM4/30/10 Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No \_ 6. Sufficient sample volume for indicated test(s)? No 🗌 Yes V 7. Are samples (except VOA and ONG) properly preserved? No Yes V 8. Was preservative added to bottles? Yes | No V NA 🗌 9. VOA vials have zero headspace? No VOA Vials No 🗌 Yes 10. Were any sample containers received broken? No V # of preserved bottles checked Yes V 11. Does paperwork match bottle labels? for pH: No 🗌 (Note discrepancies on chain of custody) unless noted) 12. Are matrices correctly identified on Chain of Custody? No 🗌 Yes V 13. Is it clear what analyses were requested? Yes V No 🗌 14. Were all holding times able to be met? Yes V Checked by: No L (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes NA V No Person Notified: Date: By Whom: eMail Phone Fax In Person Via: Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 0.1 Good Yes

| Client: SMA-Calls bad.   Distandard of Rush Standard of Rush Standard of Rush Standard of Rush Standard of Standar           |                             | -of-C    | Chain-of-Custody Record                | Turn-Around Time:       | l Time:              |                |                    |             |                 |              |                  |                  | ecei    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------|----------------------------------------|-------------------------|----------------------|----------------|--------------------|-------------|-----------------|--------------|------------------|------------------|---------|
| Project Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Client                      | ₹-0      | anspad.                                | -<br>□ Standarc         | P                    | Sday           |                    | I A         | ALYS            | STS          | RONN             | TENTAL<br>RATORY | ved b   |
| Mailing Address:  Phone #:  Phone #            |                             |          |                                        | Project Nam             |                      | (Arr)          |                    | N N         | w.hallen        | vironme      | intal.com        |                  | y OC.   |
| Project #:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             | .:       |                                        |                         | Jame                 | Johnst Wolldes | 4901 H             | lawkins     | 1               | ondner       | dne, NM 87       | 109              | D: 9/   |
| Phone #:   email or Fax#:   Project Manager:     Converted   Converted   Container   Preservative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                             |          |                                        | Project #:              |                      |                |                    | 15-345-3    |                 | Fax 50       | 5-345-4107       |                  | /18/2   |
| email or Fax#:  OA/OC Package:  OStandard  Accreditation:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |          |                                        |                         |                      |                |                    |             | Anal            | The same of  | dnest            |                  | 024     |
| According to the control of the co             |                             |          |                                        | Project Mana            | ager:                |                | (0                 |             | †O\$            |              | (ţu              |                  | 9:5     |
| Confidence   Sampler: M-PS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | QA/QC Package<br>☐ Standard |          | ☐ Level 4 (Full Validation)            | $\Sigma_{2}$            | Supo                 | aujari         | SO / MR            | SWIS0       | PO4, 9          |              | əsdA\tr          |                  | 6:21 AN |
| Type   Cooler   A-Yes   Cooler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Accreditation:              | □ Az Cc  | ompliance                              | Sampler: M              | SA                   |                | N DE               |             | 10 <sup>5</sup> |              |                  |                  | 1       |
| (Type)  Time Matrix Sample Name Cooler Templecularing CP:  12: \text{C} \text{Sur}   \text{Sur} \text{C}   \text{Cooler Templecularing CP:} \\  12: \text{C} \text{Sur}   \text{Sur} \text{C} \\  12: \text{C} \text{Sur}   \text{Sur} \text{C} \\  12: \text{C} \text{Sur}   \text{Sur} \text{C} \\  12: \text{C} \text{Sur} \text{Sur} \text{C} \\  12: \text{C} \text{Sur} \text{Sur} \text{C} \\  12: \text{C} \text{Sur} \text{Sur} \text{C} \\  12: \text{C} \text{Sur} \text{Sur} \text{C} \\  12: \text{C} \text{Sur} \text{Sur} \text{Sur} \\  12: \text{C} \text{Sur} \text{Sur} \text{Sur} \\  12: \text{C} \text{Sur} \\  13: \text{C} \text{Sur} \\  14: \text{Sur} \\  15: \text{C} \text{Sur} \\  16: \text{Sur} \\  17: \text{C} \text{Sur} \\  18: \text           | □ NELAC                     | □ Othe   |                                        | On Ice:                 | 本 Yes                |                | OS                 |             |                 |              |                  |                  |         |
| Time Matrix Sample Name Container Preservative 14:50 Swil Swol Aoz.  12:00 Swo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | □ EDD (Type)                |          |                                        | # of Coolers.           | ) :                  | (-2.0-)        | (GF                |             |                 | (            |                  |                  |         |
| Time Matrix Sample Name Type and # Type  14:50 Swil Sw 2  12:50 Study  11:00 W. Www.  11:00 W.            |                             |          |                                        | Cooler Temp             | O(including CF):     | et, 10 , 10    | 12D                |             |                 | AO           | 100              |                  |         |
| 14:50 Sail SW2  12:00 SW3  11:00 SW3  11:00 SW3  11:00 SW3  11:45 BH2  402.  11:00 WH4  11:45 BH2  12:00 WBH4  Time: Relinquished by:  10:00 WWww.min  Time: Relinquished by:  10:00 WWw.min  Time: Relinquished by:  10:00 WWw.min  Time: Relinquished by:  10:00 WW.min  Time: Relinquished by:  10:00 W           |                             | Matrix   | Sample Name                            | Container<br>Type and # | Preservative<br>Type | I GOU C        | 08/H9J             |             |                 | v) 09Z8      |                  |                  |         |
| 12:30   SW 2<br>12:30   SW 3<br>12:30   SH 4<br>11:45   BH 2<br>12:00 \$\frac{1}{2}\$   Received by: Via:   Henglished by:   Received by: Via:   Henglished by: Via: | 4/25/114:8D                 |          | 135                                    | 402.                    |                      | Ì              | 1                  |             | 11              |              |                  |                  |         |
| 12:00 SW4  11:00 SW4  11:00 SW4  5:00 BH14  12:00 VBH2  12:00 VBH4  Time: Relinguished by: Relinguished by: Time: Relinguished by: Re           | 1 4:30                      |          | SWZ                                    | -                       |                      | 200-           | \ \                |             | 1               |              |                  |                  |         |
| 12:30 SW4  11:00 SLUS  5:00 BH14  11:45 BH2  12:00 BH2  12:00 BH2  12:00 WRITHAMAM  Time: Relinguished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | U2:00                       |          | Sw3                                    |                         |                      | -003           | \                  |             | 1               |              |                  |                  | , 1     |
| 11:00 S:00 B#14 11:45 B#2 4:15 B#3 12:00 B#4   B#4   B#4   B#4   B#4   B#4   B#3   B#3   B#3   B#3   B#3   B#4   B           | 78:21                       |          | Swat                                   |                         |                      | +00-           | 1                  |             | 1               |              |                  |                  |         |
| 5:00 BH14  11:45 BH2  12:00 J BH4  Time: Relinquished by:    D:00   M. M. M. M. M.    Time: Relinquished by:    D:00   M. M. M. M.    Time: Relinquished by:   Time: Relinquished by: Via:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             |          | SWS                                    |                         |                      | -0002          |                    |             | 1               |              |                  |                  |         |
| 11:45 \$ # 2 # 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                             |          | SH14                                   |                         |                      | 1              | 1/                 |             | 1               |              |                  |                  |         |
| Time: Relinquished by:    12:00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7 11:45                     |          | BH2                                    |                         |                      | 7007           | 1/                 |             |                 |              |                  |                  | 7.1     |
| 2:00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | S1:+ +                      |          | 843                                    |                         |                      | 0              | 16                 |             |                 |              |                  |                  |         |
| Time: Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 26                          |          | 874                                    | -\$                     |                      | 600-           | 1                  |             | 1               |              |                  |                  |         |
| Time: Relinquished by:    D:00     Mm/mi   Time: Relinquished/by:   Received by: Via:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |          |                                        |                         |                      |                |                    |             |                 |              |                  |                  |         |
| Time: Relinquished by:  (0:00   M.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |          |                                        | 0                       | 1                    |                |                    |             |                 |              |                  |                  |         |
| Time; Reling Shedrow: Nia: Received by: Via:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             | Relinqui | hed by:                                | Received by:            | ä                    | 0 5            | Remarks:<br>Mataol | <u> </u>    |                 |              |                  |                  | Pa      |
| and Al                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             | Reling   | ned/by:                                | Received by:            | Via:                 | ate 2          |                    |             |                 |              |                  | 6                | ige 411 |
| 1 It is not contracted to Hall Environmental may be supported to other accordated laboratories. This serves as notice of this nossibility. Any sub-contracted data will be clearly notated on the analytical report                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6                           | T        | Land to Hall Emilianmental may be subo | To other                | Coco C               |                | noscibility Any st | h-contracte | d liw ater      | o clearly no | ant and hor sans | alvical renort   | of 8    |



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 10, 2019

Melodie Sanjari Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-8801

FAX

RE: Janie Conner TB OrderNo.: 1905372

#### Dear Melodie Sanjari:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/8/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

# Analytical Report Lab Order 1905372

Date Reported: 5/10/2019

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH2

 Project:
 Janie Conner TB
 Collection Date: 5/5/2019 12:00:00 PM

 Lab ID:
 1905372-001
 Matrix: SOIL
 Received Date: 5/8/2019 8:50:00 AM

| Analyses                 | Result | RL Qu | ıal Units | DF | Date Analyzed       | Batch   |
|--------------------------|--------|-------|-----------|----|---------------------|---------|
| EPA METHOD 300.0: ANIONS |        |       |           |    | Analy               | st: MRA |
| Chloride                 | 1100   | 59    | mg/Kg     | 20 | 5/9/2019 3:07:25 PM | 44826   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 2

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1905372** 

10-May-19

Client: Souder, Miller & Associates

**Project:** Janie Conner TB

Sample ID: MB-44826 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 44826 RunNo: 59766

Prep Date: 5/9/2019 Analysis Date: 5/9/2019 SeqNo: 2016237 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-44826 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 44826 RunNo: 59766

Prep Date: 5/9/2019 Analysis Date: 5/9/2019 SeqNo: 2016238 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

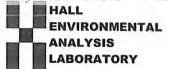
Chloride 14 1.5 15.00 0 95.0 90 110

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

#### Sample Log-In Check List

Client Name: SMA-CARLSBAD Work Order Number: 1905372 RcptNo: 1 Received By: Isaiah Ortiz 5/8/2019 8:50:00 AM Completed By: Leah Baca 5/8/2019 9:27:45 AM Reviewed By: DAD Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA 🗌 Were all samples received at a temperature of >0° C to 6.0°C No NA 🗌 Sample(s) in proper container(s)? Yes 🗸 No \_ Sufficient sample volume for indicated test(s)? Yes V No 7. Are samples (except VOA and ONG) properly preserved? Yes V No 8. Was preservative added to bottles? Yes No V NA 🗌 9. VOA vials have zero headspace? No 🗌 No VOA Vials Yes 10. Were any sample containers received broken? No V # of preserved bottles checked 11. Does paperwork match bottle labels? Yes V No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? No 🗌 Yes 🗸 13. Is it clear what analyses were requested? Yes V No 🗌 checked by: DAD 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No NA V Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 2.3 Good Yes

| ENVIRONMENTAL YSIS LABORATORY 6000000000000000000000000000000000000                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Total Coliform (Present/Absent)  6:29:56 |                                                                                                                                                                                                                                            |                             |                |          | ofiloO lsfoT  |                                                                                  | Dotental analys | Page 416 of |                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------|----------|---------------|----------------------------------------------------------------------------------|-----------------|-------------|-----------------------------------------------------|
| HALL ENVIRONME ANALYSIS LABORA www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Reguest |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          | BTEX / MTBE / TMB's (8021)  TPH:8015D(GRO / DRO / MRO)  8081 Pesticides/8082 PCB's  PAHs by 8310 or 8270SIMS  RCRA 8 Metals  RCRA 8 Metals  CI) F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> RCRA 8 Metals |                             |                |          |               |                                                                                  | >               | as told for |                                                     |
|                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                                                                                                                                                                                                                                            |                             |                |          |               |                                                                                  |                 | ğ<br>A      | Remarks:                                            |
| Rush                                                                                                                                                 | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |                                                                                                                                                                                                                                            | Melade Sanjar               |                | Mar Yes  | ers:          | Cooler Temp(induding CF): 2,3.*  Container Preservative HEAL No. Type and # Type | 100-            | 200-        | Via: Date Tin                                       |
| Turn-Around Time:  Standard  Project Name:                                                                                                           | Project #:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          | Project Manager                                                                                                                                                                                                                            | Me                          | Sampler:       | On Ice:  | # of Coolers: | Cooler Tem Container Type and #                                                  | 400             | ,,          | Received by:                                        |
| Chain-of-Custody Record                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                                                                                                                                                                                                                                            | ☐ Level 4 (Full Validation) |                | □ Other_ |               | Sample Name                                                                      | 842             | BH4         | de by:                                              |
| SmA-                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                                                                                                                                                                                                                                            |                             |                |          |               | Matrix                                                                           | 500,            | Sail        | Relinquish                                          |
| Shain                                                                                                                                                | in a second seco | #:                                       | email or Fax#:<br>QA/QC Package:                                                                                                                                                                                                           | ndard                       | Accreditation: | AC       | ☐ EDD (Type)  | Time                                                                             | 00:215/5/5      | 12:30       | Date: Time: S/k   (1/2 12.00) Date: Time: 7/9/9/900 |
| Client: SM                                                                                                                                           | Mailing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Phone #:                                 | email (                                                                                                                                                                                                                                    | □ Standard                  | Accrec         | □ NELAC  |               | Date                                                                             | 1/5/5           | 5/12/13     | Date: \$7/4 (15)                                    |

# APPENDIX E EXCAVATION PHOTO











Released to Imaging: 10/1/2024 11:13:49 AM

# APPENDIX F Background Soil Data Report in the Loving/Malaga Area of Eddy County, NM



October 17, 2018

NMOCD District 2 Ms. Maria Pruett 811 S. 1st Street Artesia, NM 88210

SUBJECT: Background Soil Data Report around Malaga/ Loving in Eddy County, New Mexico

Dear Ms. Maria Pruett:

Souder, Miller & Associates (SMA) has prepared this Report that describes soils types and background chloride concentrations around the Loving and Malaga Area in Eddy County, New Mexico. Figure 1 illustrates the vicinity and site locations described in this report.

#### 1.0 Background

The soil types located under and around the Loving and Malaga, New Mexico area have a moderate to high electrical conductivity (EC) according to United States Department of Agriculture (USDA) and Natural Resource Conservation Service NRCS. "(EC) is the electrolytic conductivity of an extract from saturated soil paste, expressed as decisiemens per meter at 25 degrees C. Electrical conductivity is a measure of the concentration of water-soluble salts in soils. It is used to indicate saline soils. High concentrations of neutral salts, such as sodium chloride and sodium sulfate." (NRCS soil sampling guide) According to the Eddy County Soil Survey soils are moderately high in sodium chloride and sodium sulfate with baseline (EC) from 2-5 decisiemens per meter at 25 degrees C see NRCS Electrical Conductivity Map (Appendix B).

SMA and Matador have confirmed this moderately high (EC) effect from the area soil types in several baseline sampling events conducted on Matadors behalf prior to E&P operations (see appendix A). All attached third party lab results have been collected in the same area soil types that surround the irrigated river valley near the Loving and Malaga, New Mexico. The five representative baseline sample events where collected by SMA and are summarized in (Table # 1).

- Tom Walters baseline soil data shows pre-Matador oil and gas operation EPA 300 Cl- from 2300ppm-3900ppm
- Warren baseline soil data shows pre-Matador oil and gas operation EPA 300 CI- from 170ppm- 2400ppm
- Guitar baseline soil data shows pre-Matador oil and gas operation EPA 300 Cl- from 2200ppm- 4000ppm
- B Banker baseline soil data shows pre-Matador oil and gas operation EPA 300 Cl- from 55ppm- 3500ppm
- Janie Conner Production Pad baseline soil data shows pre-Matador oil and gas operation EPA 300 Cl- from 170ppm- 1800ppm

Site Assessment/Characterization and Closure Sampling Plan Report (2RP-3739) October 17, 2018

Page 2 of 3

In addition, SMA and Matador have confirmed this moderately high (EC) effect from the area soil types in Background delineation from sampling events conducted on Matadors behalf by SMA for remedial purposes.

- Paul background soil data BG1, BG2, and BG3 shows non-disturbed by Matador oil and gas operations EPA 300 CI- from 43ppm-5300ppm
- Tiger background soil data BG1 shows non-disturbed by Matador oil and gas operations EPA 300 Cl- from 24ppm-4800ppm
- Janie Connor #221 background soil data B65 shows non-disturbed by Matador oil and gas operations EPA 300 Cl- from 79ppm-1200ppm

As outlined above, the high concentrations of neutral salts, such as sodium chloride and sodium sulfate should be found in the soil types; Gypsum Cottonwood, Karro Loam, Pima Silt, Regan and Reeves loams. Several samples were taken at one background location to a total depth of 10 feet and tested for sulfates. SMA has also included data from three other background locations in the same soil types as located at the Paul location. Sulfates can be used as a reference criterion on this release due to the natural parent material found in the area soil types and its low concentrations found in the produced water from the area wells, formations, and the Tiger Facility 2RF-106 (see attached data in appendix A). Four background sample locations (shown in Table #1) were used to establish the background level of sulfates in the area and serve as further proof of the NRCS, USDA and SMA baseline data. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for sulfates (all lab reports are located in appendix A).

#### 2.0 Soil Remediation Summary

This report has been created to show soil types and their water-soluble salts properties around Loving and Malaga, New Mexico. Soil data from online resources from United States Department of Agriculture, Natural Resource Conservation Service indicates certain soil types in the area have a moderate to high EC which indicates saline soils. Saline soils contain sodium chloride and sodium sulfate. SMA soil sampling prior to E&P operations and background samples during remediation activities were used to show laboratory data of these soils. It is shown from the laboratory that certain soil types have exhibited a higher chloride constitution.

#### 3.0 Scope and Limitations

The scope of our services included: assessment sampling; verifying release stabilization; regulatory liaison; remediation; and preparing this report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-8801.

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Submitted by:

SOUDER, MILLER & ASSOCIATES

Reviewed by:

Lucas C. Middleton Staff Scientist Austin Weyant Senior Scientist

#### **ATTACHMENTS:**

Figures:

Figure 1: Sample Location Map

Tables:

Table 1: Summary of Sample Results

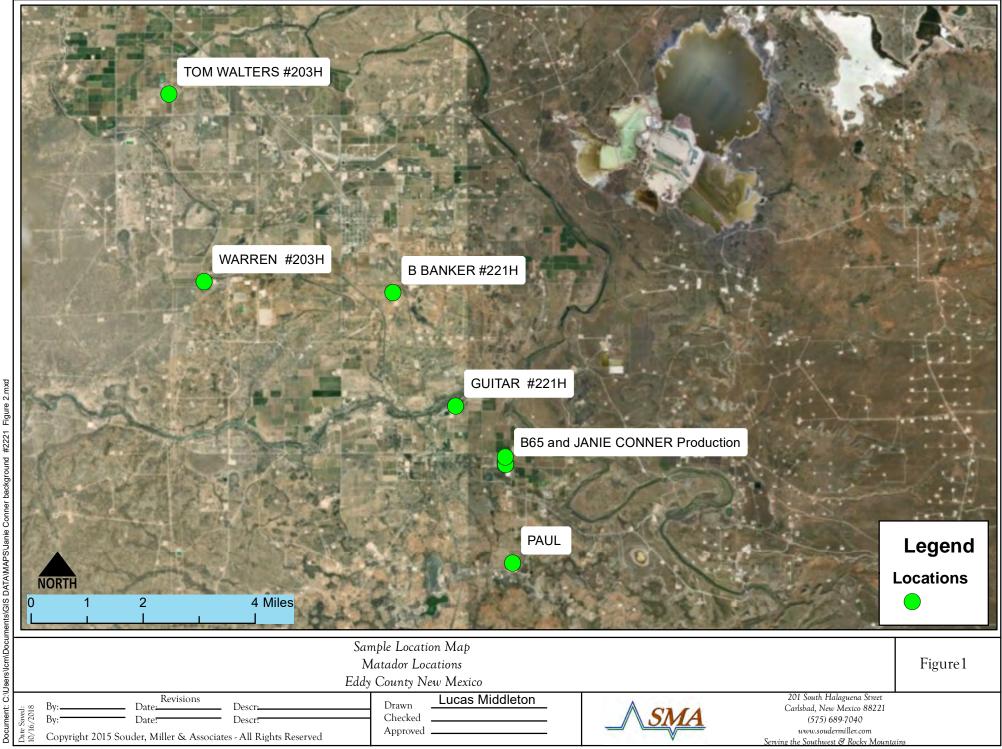
Appendices:

Appendix A: Laboratory Analytical Reports (BASELINE AND BACKGROUND)

Appendix B: NRCS ELECTRICAL CONDUCTIVITY MAP

Appendix C: NRCS Custom Soil Resource Report for Eddy Area, New Mexico

# **FIGURES**



# **TABLES**

Table 1

|                    |                  |             |                     |            | Nitrate | Sulfate | CI-                 |
|--------------------|------------------|-------------|---------------------|------------|---------|---------|---------------------|
| SITE               | Sample<br>Number | Sample Date | Depth<br>(feet bgs) | Action     | mg/L    | mg/Kg   | Laboratory<br>mg/Kg |
| JANIE CONNER #201, | P1               | 7/22/2016   |                     | Baseline   |         |         | 170                 |
| PRODUCTION         | P2               | 7/22/2016   |                     | Baseline   |         |         | 1600                |
| PRODUCTION         | Р3               | 7/22/2016   | 0.5'                | Baseline   |         |         | 1800                |
|                    |                  | 9/18/2018   | 1'                  | BackGround |         |         | 1100                |
|                    |                  | 9/18/2018   | 2'                  | BackGround |         |         | 1200                |
| JANIE CONNER #221, | B65              | 9/18/2018   | 3'                  | BackGround |         |         | 550                 |
| West of Location   | 503              | 9/18/2018   | 4'                  | BackGround |         |         | 840                 |
|                    |                  | 9/18/2018   | 5'                  | BackGround |         |         | 79                  |
|                    |                  | 9/18/2018   | 6'                  | BackGround |         |         | 110                 |
|                    | L1               | 10/20/2016  | 0.5                 | Baseline   |         |         | 3200                |
|                    | L2               | 10/20/2016  | 0.5                 | Baseline   |         |         | 3600                |
| Tom Waltors        | L3               | 10/20/2016  | 0.5                 | Baseline   |         |         | 3900                |
|                    | L4               | 10/20/2016  | 0.5                 | Baseline   |         |         | 2300                |
|                    | L5               | 10/20/2016  | 0.5                 | Baseline   |         |         | 3000                |
|                    | L1               | 5/2/2017    | 0.5                 | Baseline   |         |         | 1100                |
| Warren             | L2               | 5/2/2017    | 0.5                 | Baseline   |         |         | 120                 |
| vvarien            | L3               | 5/2/2017    | 0.5                 | Baseline   |         |         | 170                 |
|                    | L4               | 5/2/2017    | 0.5                 | Baseline   |         |         | 2400                |
|                    | L1               | 1/9/2017    | 0.5                 | Baseline   |         |         | 4000                |
|                    | L2               | 1/9/2017    | 0.5                 | Baseline   |         |         | 3500                |
| Guitar             | L3               | 1/9/2017    | 0.5                 | Baseline   |         |         | 2200                |
|                    | L4               | 1/9/2017    | 0.5                 | Baseline   |         |         | 6300                |
|                    | L5               | 1/9/2017    | 0.5                 | Baseline   |         |         | 3800                |
|                    | BL1              | 5/3/2016    | 0.5                 | Baseline   |         |         | <20                 |
|                    | BL2              | 5/3/2016    | 0.5                 | Baseline   |         |         | 120                 |
| B Banker           | BL3              | 5/3/2016    | 0.5                 | Baseline   |         |         | 55                  |
|                    | BL4              | 5/3/2016    | 0.5                 | Baseline   |         |         | 3500                |
|                    | BL5              | 5/3/2016    | 0.5                 | Baseline   |         |         | <20                 |
|                    |                  | 6/7/2017    | 0.5                 | Background |         |         | 43                  |
|                    | BG1              | 6/7/2017    | 1                   | Background |         |         | 2600                |
|                    | DGI              | 6/7/2017    | 2                   | Background |         |         | 3000                |
| Paul               |                  | 6/7/2017    | 4                   | Background |         |         | 5300                |
| i dui              |                  | 6/7/2017    | 0.5                 | Background |         |         | <30                 |
|                    | BG2              | 6/7/2017    | 1                   | Background |         |         | 530                 |
|                    | 502              | 6/7/2017    | 2                   | Background |         |         | 1500                |
|                    |                  | 6/7/2017    | 4                   | Background |         |         | 2600                |
|                    |                  | 6/12/2017   | 0.5                 | Background | 6.3     | 4800    | 24                  |
|                    |                  | 6/12/2017   | 1                   | Background | <1.5    | 7700    | 1000                |
|                    |                  | 6/12/2017   | 2                   | Background | 1.5     | 10000   | 3200                |
|                    |                  | 6/12/2017   | 3                   | Background | 1.6     | 7800    | 4800                |
| Paul               | BGC              | 6/12/2017   | 4                   | Background | <1.5    | 9500    | 4800                |
|                    |                  | 6/12/2017   | 6                   | Background | <1.5    | 5300    | 3500                |
|                    |                  | 6/12/2017   | 8                   | Background | 1.6     | 8300    | 2400                |
|                    |                  | 6/12/2017   | 10                  | Background | <1.5    | 7200    | 2700                |
|                    |                  | 6/12/2017   | 12                  | Background | <1.5    | 7100    | 1300                |

<sup>&</sup>quot;--" = Not Analyzed

### **APPENDIX A:**

# LABORATORY ANALYTICAL REPORTS (BASELINE AND BACKGROUND)



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

September 28, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: Janie Connol B65 OrderNo.: 1809C05

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 6 sample(s) on 9/20/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

#### **Analytical Report**

Lab Order: **1809C05**Date Reported: **9/28/2018** 

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Lab Order: 1809C05 **Project:** Janie Connol B65 Lab ID: 1809C05-001 **Collection Date:** 9/18/2018 11:00:00 AM Client Sample ID: B65-1 Matrix: SOIL PQL Qual Units DF Date Analyzed **Analyses** Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 1100 30 9/26/2018 5:13:32 PM 40598 mg/Kg Lab ID: 1809C05-002 **Collection Date:** 9/18/2018 11:10:00 AM Matrix: SOIL Client Sample ID: B65-2 PQL Qual Units DF Date Analyzed Analyses Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 1300 75 mg/Kg 50 9/27/2018 10:23:02 PM 40598 Lab ID: 1809C05-003 **Collection Date:** 9/18/2018 11:20:00 AM Matrix: SOIL Client Sample ID: B65-3 Result POL Qual Units DF Date Analyzed Analyses **Batch ID EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 550 30 mg/Kg 9/26/2018 6:03:10 PM 40598 1809C05-004 **Collection Date:** 9/18/2018 11:30:00 AM Lab ID: Matrix: SOIL Client Sample ID: B65-4 Result **POL Qual Units** DF Date Analyzed Analyses Batch ID **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride 30 840 mg/Kg 20 9/26/2018 6:15:34 PM 40598 Lab ID: 1809C05-005 **Collection Date:** 9/18/2018 11:40:00 AM Client Sample ID: B65-5 Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

30

Result

79

**Qualifiers:** 

**Analyses** 

Chloride

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range

PQL Qual Units DF Date Analyzed

**Batch ID** 

40598

Analyst: smb

9/26/2018 6:27:59 PM

- J Analyte detected below quantitation limits Page 1 of 3
- P Sample pH Not In Range

mg/Kg

RL Reporting Detection Limit

**EPA METHOD 300.0: ANIONS** 

**Analytical Report** 

Lab Order: 1809C05

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/28/2018

CLIENT: Souder, Miller & Associates Lab Order: 1809C05

**Project:** Janie Connol B65

**Lab ID:** 1809C05-006 **Collection Date:** 9/18/2018 11:50:00 AM

Client Sample ID: B65-6 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: smb

Chloride 110 30 mg/Kg 20 9/26/2018 6:40:24 PM 40598

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 3
- P Sample pH Not In Range
- RL Reporting Detection Limit

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1809C05 28-Sep-18** 

Client: Souder, Miller & Associates

**Project:** Janie Connol B65

Sample ID MB-40598 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **40598** RunNo: **54458** 

Prep Date: 9/26/2018 Analysis Date: 9/26/2018 SeqNo: 1805031 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-40598 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 40598 RunNo: 54458

Prep Date: 9/26/2018 Analysis Date: 9/26/2018 SeqNo: 1805032 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.8 90 110

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

E Value along a superfitation associated Method Blank

Page 3 of 3



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87103 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.con

# Sample Log-In Check List

| Client Name: SMA-CARLSBAD                                                        | Work Order Number: 1809C05 |                    | RcptNo: 1             |
|----------------------------------------------------------------------------------|----------------------------|--------------------|-----------------------|
| Received By: Erin Melendrez 9/                                                   | 20/2018 8:50:00 AM         | unt                |                       |
| Completed By: Ashley Gallegos , 9/                                               | 20/2018 12:42:23 PM        | A                  |                       |
| Reviewed By: JAB 09/20/18                                                        | 1                          |                    |                       |
|                                                                                  | (abe                       | eled by 1          | ENH GYZDAR            |
| Chain of Custody                                                                 |                            | ·                  | 10                    |
| 1. Is Chain of Custody complete?                                                 | Yes 🗹                      | No 🗌 No            | t Present 🗌           |
| 2. How was the sample delivered?                                                 | <u>Courier</u>             |                    |                       |
| Log In                                                                           |                            |                    |                       |
| Was an attempt made to cool the samples?                                         | Yes 🗸                      | No 🗌               | na 🗀                  |
|                                                                                  |                            |                    |                       |
| 4. Were all samples received at a temperature of >                               | •0° C to 6.0°C Yes ✓       | No 🗌               | na 🗆                  |
| 5. Sample(s) in proper container(s)?                                             | Yes 🗹                      | No 🗀               |                       |
| hours or Erekan sammer (a).                                                      | ,00                        |                    |                       |
| 6. Sufficient sample volume for indicated test(s)?                               | Yes 🗹                      | No 🗌               |                       |
| 7. Are samples (except VOA and ONG) properly pro                                 |                            | No 🗌               | <b></b>               |
| Was preservative added to bottles?                                               | Yes 📙                      | No 🗹               | NA 🗌                  |
| 9. VOA vials have zero headspace?                                                | Yes                        | No □ No V          | OA Vials 🗹            |
| 10. Were any sample containers received broken?                                  | Yes □                      | No 🗹               |                       |
|                                                                                  | _                          | bottle             | reserved<br>s checked |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes 🗹                      | No 🗌 for pl        | t: unless note        |
| 12. Are matrices correctly identified on Chain of Cusi                           | tody? Yes <b>⊻</b>         | No 🗆               | Adjusted?             |
| 13. Is it clear what analyses were requested?                                    | Yes 🗹                      | No □               |                       |
| 14. Were all holding times able to be met?                                       | Yes 🗸                      | No □               | Checked by:           |
| (If no, notify customer for authorization.)                                      |                            |                    |                       |
| Special Handling (if applicable)                                                 |                            |                    |                       |
| 15. Was client notified of all discrepancies with this                           | order? Yes                 | No 🗆               | NA 🗹                  |
| Person Notified:                                                                 | Date                       |                    |                       |
| By Whom:                                                                         | Via: ☐ eMail ☐             | Phone  Fax In I    | Person                |
| Regarding: Client Instructions:                                                  |                            |                    |                       |
| ***************************************                                          |                            |                    |                       |
| 16. Additional remarks:                                                          |                            |                    |                       |
| 17. Cooler Information                                                           | sea i signete dallate de   | finalização Alc. 1 |                       |
|                                                                                  | ntact Seal No Seal Date    | Signed By          |                       |
| Cooler No Temp °C Condition Seal II  1 0.2 Good Yes                              |                            | 1                  |                       |

|                         | ANAI YSTS I ABORATORY |               | $865 \mid$ 4901 Hawkins NE - Albuquerque, NM 87109 | Tel. 505-345-3975 Fax 505-345-4107 | Analysis Request | O <sup>∜</sup> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ossso (Gaso (SMI            | + TMB'<br>+ TMB'<br>+ TPH<br>04.1)<br>04.1)<br>04.1)<br>04.1)<br>04.1) | (GE - 100) Or 100 SE - 100 SE | FALNO.  TEALNO.  TEALNO.  TPH 8015B  TPH (Method PAH's (8310 PAH'S | -001       |        | -003   | -004   | -005     |        |   |  |  | ape Time Remarks:      | ate Time OSSO 20/19         |
|-------------------------|-----------------------|---------------|----------------------------------------------------|------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| ime:                    | VRush S de            | 7             | Compos Bl                                          |                                    |                  | Lie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | tok ha                      | Ves No                                                                 | arature: L.1−Λ9(κ=)=Δ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                                                                                                                                                                                                                                                                                                                                                                                                                                  |            | )      | 2-     | Ġ      | 0_       | 0-     |   |  |  | 161/6                  | COURTER Date  COURTER 9/20/ |
| Turn-Around Time:       | ☐ Standard            | Project Name: | )<br>Janje                                         | Project #:                         |                  | Project Manage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             | Sampler: On Ice:                                                       | Sample Temperature [.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Container<br>Type and #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 202        |        |        |        |          |        | 2 |  |  | Received by:           | Received by:                |
| Chain-of-Custody Record | <b>.</b>              | 6×60×0        |                                                    |                                    |                  | THE STATE OF THE S | ☐ Level 4 (Full Validation) |                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sample Request ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 136 5-1    | 1365-2 | 1365-3 | 1265-W | 5-590    | 9-5981 |   |  |  | d by.                  | had by:                     |
| nain-of-Cu              | ANG.                  |               | \ddress:                                           |                                    |                  | Fax#:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| さ                       | Client:               |               | Mailing Address:                                   |                                    | Phone #:         | email or Fax#:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | QA/QC Package:              | Accreditation  □ NELAP                                                 | □ EDD (Type)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                                                                                                                                                                                                                                                                                                                                                                                                                                  | 9-18-18    |        |        |        | ,        |        | 5 |  |  | Date:                  | X_                          |



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

November 16, 2016

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040

FAX

RE: Tom Waltors OrderNo.: 1611165

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/1/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

**CLIENT:** 

**Analyses** 

Chloride

Analyses

**Batch ID** 

**Batch ID** 

**Batch ID** 

#### **Analytical Report**

Lab Order: 1611165

**DF** Date Analyzed

**DF** Date Analyzed

**DF Date Analyzed** 

100 11/14/2016 1:37:01 PM 28450

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/16/2016

Souder, Miller & Associates Lab Order: 1611165 Project: Tom Waltors

1611165-001 **Collection Date:** 10/20/2016 10:00:00 AM Lab ID:

Matrix: SOIL Client Sample ID: L1

Result

**EPA METHOD 300.0: ANIONS** Analyst: MRA

**PQL Qual Units** 

**PQL Qual Units** 

mg/Kg

Chloride 3200 150 mg/Kg 100 11/14/2016 1:24:36 PM 28450

Lab ID: 1611165-002 Collection Date: 10/20/2016 10:00:00 AM

Client Sample ID: L2 Matrix: SOIL

Result

3600

**Analyses** Analyst: MRA **EPA METHOD 300.0: ANIONS** 

150

Lab ID: Collection Date: 10/20/2016 10:00:00 AM 1611165-003

Client Sample ID: L3 Matrix: SOIL

**POL Qual Units** Analyses Result **DF Date Analyzed Batch ID** 

**EPA METHOD 300.0: ANIONS** Analyst: MRA 150 100 11/14/2016 1:49:25 PM 28450 Chloride 3900 mg/Kg

**Collection Date:** 10/20/2016 10:00:00 AM Lab ID: 1611165-004

Client Sample ID: L4 Matrix: SOIL

Result

**POL Qual Units** 

**EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 2300 150 mg/Kg 100 11/14/2016 2:01:50 PM 28450

Lab ID: **Collection Date:** 10/20/2016 10:00:00 AM 1611165-005

Client Sample ID: L5 Matrix: SOIL

Analyses Result **PQL Qual Units DF Date Analyzed Batch ID** 

**EPA METHOD 300.0: ANIONS** Analyst: MRA

Chloride 100 11/14/2016 2:14:14 PM 28450 3000 150 mg/Kg

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Level.

> D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Ε Value above quantitation range

Analyte detected below quantitation limits J Page 1 of 2

P Sample pH Not In Range

RLReporting Detection Limit

W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1611165

16-Nov-16

**Client:** Souder, Miller & Associates

**Project:** Tom Waltors

Sample ID MB-28450 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 28450 RunNo: 38449

Prep Date: 11/3/2016 Analysis Date: 11/3/2016 SeqNo: 1200952 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID LCS-28450 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 28450 RunNo: 38449

Prep Date: 11/3/2016 Analysis Date: 11/3/2016 SeqNo: 1200953 Units: mg/Kg

**RPDLimit** SPK value SPK Ref Val %REC LowLimit %RPD Analyte Result HighLimit Qual

Chloride 14 1.5 15.00 0 94.4 110

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

# Sample Log-In Check List

| LABORATORY                                                                             | Website: www.ha                | illenvironmenta                                                                                                 | ıl.com                                                  |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
|----------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Client Name: SMA-CARLSBAD                                                              | Work Order Number              | : 1611165                                                                                                       |                                                         |                        | RcptNo:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1                    |
| Received by/date:                                                                      | 11/01/1                        | S                                                                                                               | ٨                                                       |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| Logged By: Ashley Gallegos                                                             | 11/1/2016 10:00:00 Al          | М                                                                                                               | A                                                       |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| Completed By: Ashley Gallegos                                                          | 11/2/2016 9:49:24 PM           | I                                                                                                               | AZ                                                      |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| Reviewed By: aJ                                                                        | 11/03/16                       |                                                                                                                 | ·                                                       |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| Chain of Custody                                                                       |                                |                                                                                                                 |                                                         |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| 1. Custody seals intact on sample bottles?                                             |                                | Yes                                                                                                             | No                                                      |                        | Not Present ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                      |
| 2. Is Chain of Custody complete?                                                       |                                | Yes 🗸                                                                                                           | No                                                      |                        | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |
| 3. How was the sample delivered?                                                       |                                | Courier                                                                                                         |                                                         |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| <u>Log In</u>                                                                          |                                |                                                                                                                 |                                                         |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| 4. Was an attempt made to cool the sample                                              | s?                             | Yes 🗸                                                                                                           | No                                                      |                        | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      |
| 5. Were all samples received at a temperature                                          | ure of >0° C to 6.0°C          | Yes 🗸                                                                                                           | No                                                      | •                      | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      |
| 6. Sample(s) in proper container(s)?                                                   |                                | Yes 🗸                                                                                                           | No                                                      |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| 7. Sufficient sample volume for indicated tes                                          | st(s)?                         | Yes 🗸                                                                                                           | No                                                      |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| 8. Are samples (except VOA and ONG) pro                                                |                                | Yes 🗸                                                                                                           | No                                                      |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| 9. Was preservative added to bottles?                                                  |                                | Yes                                                                                                             | No                                                      | <b>~</b>               | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      |
| 10.VOA vials have zero headspace?                                                      |                                | Yes                                                                                                             | No                                                      |                        | No VOA Vials 🗸                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |
| 11. Were any sample containers received br                                             | oken?                          | Yes                                                                                                             | No                                                      | ✓,                     | # of preserved                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |
|                                                                                        |                                |                                                                                                                 | NI-                                                     |                        | bottles checked<br>for pH:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |
| 12. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)    |                                | Yes ✔                                                                                                           | No                                                      |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | or >12 unless noted) |
| 13. Are matrices correctly identified on Chair                                         |                                | Yes 🗸                                                                                                           | No                                                      |                        | Adjusted?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |
| 14. Is it clear what analyses were requested                                           |                                | Yes 🗸                                                                                                           | No                                                      |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| 15. Were all holding times able to be met? (If no, notify customer for authorization.) |                                | Yes 🗸                                                                                                           | No                                                      |                        | Checked by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ;                    |
| Special Handling (if applicable)                                                       |                                |                                                                                                                 |                                                         |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| 16. Was client notified of all discrepancies w                                         | ith this order?                | Yes                                                                                                             | No                                                      |                        | NA <b>✓</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ,                    |
| Person Notified:                                                                       | Date                           | <u> </u>                                                                                                        |                                                         | ********               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| By Whom:                                                                               | Via:                           | eMail                                                                                                           | Phone                                                   | Fax                    | In Person                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |
| Regarding:                                                                             |                                | i dala mana mandala di Santa da Manda d | indea 4 maginistra distribute di Marandani, condissioni | المعاد بالدران بين ورد | and the state of t |                      |
| Client Instructions:                                                                   |                                |                                                                                                                 |                                                         |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| 17. Additional remarks:                                                                |                                |                                                                                                                 |                                                         |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |
| 18. Cooler Information Cooler No Temp °C Condition 1 4.1 Good                          | Seal Intact   Seal No  <br>Yes | Seal Date                                                                                                       | Signed                                                  | Ву                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |

| CHEUT                        | Souder   | Miller and      | Souder, Miller and Associates | □ Standard              | □ Rush               |                  | L        |          | eq.               | ANALYSIS LABORATOR | ANALYSIS                  | SIS              | 2        | BO                    | LABORATORY | ORY |           |
|------------------------------|----------|-----------------|-------------------------------|-------------------------|----------------------|------------------|----------|----------|-------------------|--------------------|---------------------------|------------------|----------|-----------------------|------------|-----|-----------|
|                              |          |                 |                               | Project Name            | 1111                 |                  |          |          | 6                 | www.               | www.hallenvironmental.com | PIPOTI           | ental    | Com                   |            |     |           |
| Mailing Address:             | ddress:  |                 |                               | (0)                     | Waltors              | 3                |          | 4901     | 4901 Hawkins NE   | Ns N               | 1                         | pndne            | udne     | Albuquerque, NM 87109 | 109        |     |           |
| 201 S. Halagueno             | slaguenc | 0               |                               | Project #:              |                      |                  |          | 100      | Tel. 505-345-3975 | 15-39              | .52                       | Fax              | 905-3    | 505-345-4107          |            |     | Ž.        |
| Phone #:                     |          | 575-689-535     | 5351                          |                         |                      |                  |          |          |                   |                    | Ana                       | Analysis Request | sedno    | st                    |            | ŀ   |           |
| email or Fax#                | -ax#     | ucas m d        | drigitation miller com        | Project Manager         | Jer                  |                  |          |          |                   |                    |                           | os               | 9,8      | F                     | _          |     |           |
| QA/QC Package:<br>□ Standard | sckage:  |                 | ☐ Level 4 (Full Validation)   | Austin Weyant           | e e                  |                  |          |          | en (1200 - 1      |                    | _                         | ,pOq,s           | 82 PCE   |                       |            |     |           |
| Accreditation:               | tion     |                 |                               | Sampler                 | LCM                  | 5                | -        | -        | 111               | (1.40              |                           |                  | 08/      | (A                    |            |     | (M to     |
| O NELAP                      | 0        | Other           |                               |                         | N res                |                  | _        |          |                   | )S F               |                           | _                | _        |                       |            |     | (Y        |
| C EUD (1ype)                 | (adk)    |                 |                               | Sample Lemi             | emperante.           | 1000             | _        | -        |                   | роц                | _                         | _                |          |                       | _          |     | Sə        |
| Date                         | Time     | Matrix          | Sample Request ID             | Container<br>Type and # | Preservative<br>Type | HEAL NO.         | BTEX + M | N + X3T8 | teM) H9T          | EDB (Wet           | RCRA 8 N                  |                  | 8081 Pes | 8250 (Sei             |            |     | Iddu8 niA |
| 3/2020                       | 00,01    | Š               | 17                            | 20y                     |                      | 100-             | R        | 7        |                   |                    |                           | ×                |          |                       |            | 1   |           |
| 1                            | -        | -               | 17                            |                         |                      | -002             | >        |          |                   |                    |                           | V                |          |                       | -          | 1   |           |
|                              | 5        |                 | 1,000                         |                         |                      | -003             |          |          |                   |                    |                           | 4                |          |                       |            |     |           |
| 1                            |          | -               | 17                            |                         |                      | 1,00             |          | 28       | 1                 |                    |                           | V                |          |                       |            |     |           |
| 6                            |          | 1               | 25                            | 1                       |                      | -005             | *        | -        |                   |                    |                           | ×                |          |                       |            |     | -         |
|                              |          |                 |                               |                         |                      |                  |          | +        |                   |                    |                           |                  |          | H                     |            |     | -         |
|                              |          |                 |                               |                         |                      |                  |          | +        |                   |                    |                           |                  |          | H                     |            |     | -         |
|                              |          |                 |                               |                         |                      |                  |          | +        | -                 |                    | +                         |                  |          | +                     |            |     | -         |
|                              |          |                 |                               |                         |                      |                  |          |          |                   |                    | +                         |                  |          | $\mathbb{H}$          |            |     | 1         |
|                              |          |                 |                               |                         |                      | ľ                | -        |          |                   | 1                  |                           |                  |          | -                     |            |     | -         |
| Detec                        | Time     | Relinquished by |                               | Received by.            | hum                  | 11 Jot / 16 10co |          | Кепагка  |                   |                    |                           |                  |          |                       |            |     |           |
| Date                         | Time     | Relinquished by | ed by:                        | Received by:            |                      | Date Time        |          |          |                   |                    |                           |                  |          |                       |            |     |           |



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 16, 2017

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: Warner OrderNo.: 1706268

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 6/6/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

#### **Analytical Report**

Lab Order: 1706268

**DF** Date Analyzed

**Batch ID** 

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/16/2017

CLIENT: Souder, Miller & Associates Lab Order: 1706268

**Project:** Warner

**Analyses** 

**Lab ID:** 1706268-001 **Collection Date:** 5/2/2017 11:00:00 AM

Client Sample ID: L1 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Chloride

Analyst: MRA

The mg/Kg S0 6/12/2017 5:12:47 PM 32211

**Lab ID:** 1706268-002 **Collection Date:** 5/2/2017 11:00:00 AM

Client Sample ID: L2 Matrix: SOIL

Result

EPA METHOD 300.0: ANIONS Analyst: LGT

**PQL Qual Units** 

Chloride 120 30 H mg/Kg 20 6/10/2017 12:08:34 AM 32211

**Lab ID:** 1706268-003 **Collection Date:** 5/2/2017 11:00:00 AM

Client Sample ID: L3 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: LGT

Chloride 170 30 H mg/Kg 20 6/10/2017 12:20:59 AM 32211

**Lab ID:** 1706268-004 **Collection Date:** 5/2/2017 11:00:00 AM

Client Sample ID: L4 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: MRA

Chloride (2400) (75) H mg/Kg (50 6/12/2017 5:25:11 PM 32211

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 1 of 2

P Sample pH Not In Range

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1706268 16-Jun-17** 

Client: Souder, Miller & Associates

**Project:** Warner

Sample ID MB-32211 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **32211** RunNo: **43415** 

Prep Date: 6/9/2017 Analysis Date: 6/9/2017 SeqNo: 1366812 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-32211 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 32211 RunNo: 43415

Prep Date: 6/9/2017 Analysis Date: 6/9/2017 SeqNo: 1366813 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.8 90 110

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

# Sample Log-In Check List

Website: www.hallenvironmental.com RcptNo: 1 Client Name: SMA-CARLSBAD Work Order Number: 1706268 Received By: Richie Eriacho 6/6/2017 10:15:00 AM 12-1 Completed By: Richie Eriacho 6/6/2017 2:19:36 PM ERC. 06/06/17 Reviewed By: **Chain of Custody** No 🗌 Not Present 🗹 1. Custody seals intact on sample bottles? Yes 🗌 No 🗌 Yes 🔽 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No 🗌 NA 🔲 Yes 🔽 4. Was an attempt made to cool the samples? No 🗆 NA 🗆 Yes 🗸 5. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 6. Sample(s) in proper container(s)? Yes 🗸 No 🗆 7. Sufficient sample volume for indicated test(s)? No 🗌 Yes 🗸 8. Are samples (except VOA and ONG) properly preserved? No 🗹 NA 🗌 Yes  $\square$ 9. Was preservative added to bottles? No VOA Vials 🗹 No 🗀 10. VOA vials have zero headspace? Yes 📙 No 🗹 Yes 11. Were any sample containers received broken? # of preserved bottles checked Yes 🔽 No 🗌 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 13. Are matrices correctly identified on Chain of Custody? Yes 🗸 Yes 🗹 No 🗌 14. Is it clear what analyses were requested? No 🗌 Checked by: Yes 🔽 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 No 🗌 NA 🗹 16. Was client notified of all discrepancies with this order? Person Notified: Date: Via: eMail Phone Fax By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No 2.6 Good

| Address:   W.C.V.R.P.     Or Fax#:   Project Name:     Or Fax#:   Project Name:     Or Fax#:   Project Marager:     C Paxxage:   C Paxxage:   Project Marager:     C Paxxage:   Project Marager:   Aux Soil   L     C M Soil   L   | Client SMA     | 200           | SMA CONSTITUTE              | Chardon                 |                      |          |           | ŽL          | ורב       | NATH        | MNO        | HALL ENVIRONMENTAL |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------|-----------------------------|-------------------------|----------------------|----------|-----------|-------------|-----------|-------------|------------|--------------------|
| 1   Authorises                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                | 1             | Special                     | □ Standard              | - Kush               |          |           | A           | Y IN      | SIS         | AROB       | ATODV              |
| ### Project #:    Project #:   Project Marager:   P |                |               |                             | Project Name            | 12                   |          |           | -           | acilon ve | - Company   |            |                    |
| Time: Reinquished by: Received the solution of | Mailing Addres | ś             |                             | Warm                    | 242                  |          | 400       | www.        | w.nailen  | vironmen    | rai com    |                    |
| Container   Cont   |                |               |                             | 1                       |                      |          | 2 1       | FOR PAR     | 2075      | nbiendo     | e. NM 8710 | an an              |
| Project Manager:   Chargest   Project Manager:   Chargest   Austria   Project Manager:   Chargest   Austria   Aust   | Phone #:       |               |                             | an                      |                      |          | Ď.        | . 2002-24-0 | Anal      | vsis Red    | 3454107    |                    |
| Time   Reimpushed by   Receipt a Figure   Reimpushed by   Re   | email or Fax#; |               |                             | Project Mana            | jer                  |          | (4)       | (lə         | ŀ         | (1)         |            |                    |
| Time   Remingative by   Time   T   | OA/QC Package  |               | ☐ Level 4 (Full Validation) | AMSH                    | n weyo               | +47      | no seo    | səiQ/se     |           |             |            |                    |
| Time: Relinquished by:  Time:  | Accreditation: | Ī             |                             | 7                       |                      |          | Hd1       | - (1        |           |             |            |                    |
| Time: Relinquished by:  Recinquished by:  Recinq | EDD (Type)     | in one        |                             | On Ice:                 | 0                    | No.      | +         | 811         | IАЧ       | °EO         | (AC        |                    |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |               | Sample Request ID           | Container<br>Type and # | Preservative<br>Type | HEAL NO. | TM + X3T8 | odtaM) H9T  | AN9) 01E8 | J) y snoinA |            |                    |
| 11 ans 801 12 462 -003 11 ans 801 12 462 -003 11 ans 801 14 462 -004 The Reinquistred by: The Reinquistred by: Received by | _              |               | .5                          | 402                     |                      | 100-     |           |             |           | 1           |            |                    |
| 11 am Soil L3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | _              | $\overline{}$ | 1.2                         | 402                     |                      | 2002     |           |             |           | 1           |            |                    |
| 11 am Soil L4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\equiv$       | $\overline{}$ | 13                          | 402                     |                      | 1003     |           |             |           | 1           |            |                    |
| Time: Relinquished by:  Received by:  Receiv | 11             |               | 14                          | 402                     |                      | 400-     |           |             |           | 1           |            |                    |
| Time: Relinquished by:  Received by:  Receiv |                |               |                             |                         |                      |          |           |             |           |             |            |                    |
| Time: Relinquished by:  Received by:  Received by:  Received by:  A ST 1400  Time: Relinquished by:  Received by:  A ST 1400  Time: Relinquished by:  A ST 1400  Time: Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |               |                             |                         |                      |          |           |             |           |             |            |                    |
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| Time: Reinquished by:  Received by:  Receive |                |               |                             |                         |                      |          |           |             |           |             |            |                    |
| 2:02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | Reinquishe    | 71.                         | Racewedov: /            |                      |          | Remarks:  |             |           |             |            |                    |
| Time: Relinquished by:  [70   6 6 (7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 1             | Mar                         | 108                     |                      | 11/2     |           |             |           |             |            |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 100            | Re III        | od by:                      | Racelived by:           |                      | -        |           |             |           |             |            |                    |



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 24, 2017

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040

FAX

RE: Guitas #221 OrderNo.: 1701762

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/18/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

male

4901 Hawkins NE

Albuquerque, NM 87109

**Batch ID** 

**Batch ID** 

#### **Analytical Report**

Lab Order: 1701762

**DF** Date Analyzed

**DF** Date Analyzed

Date Reported: 1/24/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Lab Order: 1701762

Project: Guitas #221

**Analyses** 

1701762-001 **Collection Date:** 1/9/2017 7:00:00 AM Lab ID:

Matrix: SOIL Client Sample ID: L1 Result

**EPA METHOD 300.0: ANIONS** Analyst: LGT

**PQL Qual Units** 

**PQL Qual Units** 

Chloride 4000 150 mg/Kg 100 1/23/2017 1:29:23 PM 29816

Lab ID: 1701762-002 **Collection Date:** 1/9/2017 7:00:00 AM

Client Sample ID: L2 Matrix: SOIL

Result

**Analyses** Analyst: LGT **EPA METHOD 300.0: ANIONS** 

100 1/23/2017 1:41:48 PM 29816 Chloride 3500 150 mg/Kg

Lab ID: **Collection Date:** 1/9/2017 7:00:00 AM 1701762-003

Client Sample ID: L3 Matrix: SOIL

**POL Qual Units** Analyses Result **DF Date Analyzed Batch ID** 

**EPA METHOD 300.0: ANIONS** Analyst: LGT 2200 150 100 1/23/2017 2:19:02 PM 29816 Chloride mg/Kg

Lab ID: 1701762-004 **Collection Date:** 1/9/2017 7:00:00 AM

Client Sample ID: L4 Matrix: SOIL

**POL Qual Units** Analyses Result **DF Date Analyzed Batch ID** 

**EPA METHOD 300.0: ANIONS** Analyst: LGT

Chloride 6300 300 mg/Kg 200 1/23/2017 2:31:27 PM 29816

Lab ID: 1701762-005 **Collection Date:** 1/9/2017 7:00:00 AM

Client Sample ID: L5 Matrix: SOIL

Analyses Result **PQL Qual Units DF Date Analyzed Batch ID** 

**EPA METHOD 300.0: ANIONS** Analyst: LGT

Chloride 100 1/23/2017 2:43:51 PM 29816 3800 150 mg/Kg

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Level.

> D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Ε Value above quantitation range

Analyte detected below quantitation limits J Page 1 of 2

P Sample pH Not In Range

RLReporting Detection Limit

W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1701762 24-Jan-17** 

Client: Souder, Miller & Associates

**Project:** Guitas #221

Sample ID MB-29816 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **29816** RunNo: **40191** 

Prep Date: 1/20/2017 Analysis Date: 1/20/2017 SeqNo: 1260055 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-29816 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 29816 RunNo: 40191

Prep Date: 1/20/2017 Analysis Date: 1/20/2017 SeqNo: 1260056 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.8 90 110

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

| Client Name: SMA-CARL                                    | SBAD Work                    | Order Number   | er: <b>1701762</b> |                                          | Rcptl                                                                                                          | No: 1                    |
|----------------------------------------------------------|------------------------------|----------------|--------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------|
| Received by/date:                                        | ) 01                         | 18/7           |                    |                                          |                                                                                                                |                          |
| Logged By: Ashley Ga                                     | legos 1/18/20                | 117 9:30:00 AI | м                  | A                                        |                                                                                                                |                          |
| Completed By: Ashley Ga                                  | llegos 1/18/20               | 17 12:28:42 F  | PM                 | A                                        |                                                                                                                |                          |
| Reviewed By:                                             | × 011                        | 18/17          |                    | V                                        |                                                                                                                |                          |
| Chain of Custody                                         |                              |                |                    |                                          |                                                                                                                |                          |
| 1 Custody seals intact on s                              | ample bottles?               |                | Yes 🗀              | No [                                     | Not Present                                                                                                    |                          |
| 2. Is Chain of Custody comp                              | olete?                       |                | Yes 🗸              | No [                                     | Not Present                                                                                                    | ]                        |
| 3. How was the sample deliv                              | vered?                       |                | Courier            |                                          |                                                                                                                |                          |
| Log In                                                   |                              |                |                    |                                          |                                                                                                                |                          |
| 4. Was an attempt made to                                | cool the samples?            |                | Yes 🗹              | No [                                     | na [                                                                                                           | ]                        |
| 5. Were all samples receive                              | d at a temperature of >0°    | C to 6.0°C     | Yes 🗹              | No [                                     | NA [                                                                                                           | ]                        |
| 6. Sample(s) in proper conta                             | ainer(s)?                    |                | Yes 🗹              | No [                                     |                                                                                                                |                          |
| 7. Sufficient sample volume                              | for indicated test(s)?       |                | Yes 🗸              | No [                                     |                                                                                                                |                          |
| 8. Are samples (except VOA                               | and ONG) properly preser     | ved?           | Yes 🗹              | No L                                     | _l                                                                                                             |                          |
| 9. Was preservative added t                              | to bottles?                  |                | Yes 🗌              | No N                                     | <u>√</u> NA 「                                                                                                  |                          |
| 10.VOA vials have zero head                              | Ispace?                      |                | Yes 🗔              | No [                                     | No VOA Vials                                                                                                   | <u> </u>                 |
| 11. Were any sample contain                              | ers received broken?         |                | Yes                | No 🛭                                     |                                                                                                                |                          |
|                                                          |                              |                |                    | _                                        | # of preserved bottles checked                                                                                 |                          |
| 12. Does paperwork match be<br>(Note discrepancies on ch |                              |                | Yes 🗸              | No                                       | ·                                                                                                              | 2 or >12 unless noted)   |
| 13. Are matrices correctly idea                          | <del>-</del> ·               | ?              | Yes 🗸              | No [                                     | Adjusted?                                                                                                      | 2 of 212 diffess floted) |
| 14. Is it clear what analyses w                          | •                            |                | Yes 🗸              | No [                                     |                                                                                                                |                          |
| 15. Were all holding times abl                           |                              |                | Yes 🗹              | No L                                     | Checked by                                                                                                     | <i>r</i> .               |
| (If no, notify customer for                              | authorization.)              |                |                    |                                          | I                                                                                                              |                          |
| Special Handling (if app                                 | olicable)                    |                |                    |                                          |                                                                                                                |                          |
| 16. Was client notified of all d                         | iscrepancies with this order | ?              | Yes 🗌              | No [                                     | NA 🖢                                                                                                           | 1                        |
| Person Notified:                                         |                              | Date           |                    |                                          |                                                                                                                |                          |
| By Whom:                                                 |                              | "" Via:        | ·<br>[_] eMail [   | Phone F                                  | ax [] In Person                                                                                                |                          |
| Regarding:                                               |                              |                |                    | **************************************   |                                                                                                                |                          |
| Client Instructions:                                     |                              |                | <u> </u>           | C. C | and the second seco |                          |
| 17. Additional remarks:                                  |                              |                |                    |                                          |                                                                                                                | · · · ·                  |
| 18 Cooler Information                                    |                              |                |                    |                                          |                                                                                                                |                          |
| Cooler No Temp °C                                        | Condition   Seal Intact      | Seal No        | Seal Date          | Signed By                                |                                                                                                                |                          |
| 1  2.0                                                   | Good Yes                     |                |                    |                                          |                                                                                                                |                          |
| Page 1 of 1                                              |                              |                |                    |                                          |                                                                                                                | <del></del>              |

| HALL ENVIRONMENTAL      | ANALYSIS LABORATORY | www.hallenvironmental.com | 4901 Hawkins NE - Albuquerque, NM 87109 | Fax 505-345-4107  | Analysis Request |                  |                             | °, 808 \ 30 (A            | OV-                 | ACRA 8 Me<br>B081 Pestio<br>8081 Pestio<br>8260B (VOA<br>8270 (Semi | ×         | ×    | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 7    | <i>y</i> |          |  |  |                       |              |
|-------------------------|---------------------|---------------------------|-----------------------------------------|-------------------|------------------|------------------|-----------------------------|---------------------------|---------------------|---------------------------------------------------------------------|-----------|------|---------------------------------------|------|----------|----------|--|--|-----------------------|--------------|
|                         | ANAL                | www.hali                  | 4901 Hawkins NE -                       | Tel. 505-345-3975 |                  | (ʎlu             | (Gas o                      | + TPH<br>3O \ DI<br>18:1) | 9 P9<br>9 4.<br>(CE | BTEX + MT TPH (Metho TPH (Metho                                     |           |      |                                       |      |          |          |  |  | Remarks:              |              |
| ne:                     | □ Rush              |                           | ta #221                                 |                   |                  | -                | Waysh                       | Yes INO                   | 3.0-1.0CF           | ative                                                               | 100-      | 690- | -003                                  | 700- | -005     |          |  |  | Jose Time   1817 0930 | Date Time    |
| Turn-Around Time:       | ☐ Standard          | Project Name:             | 1<br>1<br>2                             | Project #:        | ļ                | Project Manager: | A15tm                       | Sampler: LC               | Sample Temperature: | Container Pr                                                        | 101       |      |                                       |      | "        | 1        |  |  | Received by:          | Received by: |
| Chain-of-Custody Record | (albad              | -                         |                                         |                   |                  |                  | ☐ Level 4 (Full Validation) |                           |                     | Sample Request ID                                                   | 17        | 77   | 73                                    | 7    | 57       |          |  |  | of par                | d by:        |
| ain-of-Cus              | SM4-                |                           | Idress:                                 |                   |                  | ax#:             | ä                           |                           | 1                   | Time Matrix                                                         | 1.00 50,0 |      |                                       |      |          | <b>A</b> |  |  | Time: Relinquished by |              |
| ວັ                      | Client:             |                           | Mailing Address:                        |                   | Phone #:         | email or Fax#:   | QA/QC Package:              | Accreditation             | □ FDD (Tvne)        | Date                                                                | 1-7-16 T  |      |                                       | 2    | 2        |          |  |  | Date: Ti              | Date:        |



Website: www.hallenvironmental.com

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

4901 Hawkins NE

Albuquerque, NM 87109

May 12, 2016

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040

FAX

RE: B Banker OrderNo.: 1605079

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 5/3/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

mule

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/12/2016

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BL-1

 Project:
 B Banker
 Collection Date: 4/29/2016 12:00:00 PM

 Lab ID:
 1605079-001
 Matrix: SOIL
 Received Date: 5/3/2016 9:40:00 AM

| Analyses                        | Result     | PQL Q  | ual | Units | DF | Date Analyzed        | Batch  |
|---------------------------------|------------|--------|-----|-------|----|----------------------|--------|
| EPA METHOD 300.0: ANIONS        |            |        |     |       |    | Analys               | :: LGT |
| Chloride                        | ND         | 30     |     | mg/Kg | 20 | 5/9/2016 1:49:28 PM  | 25197  |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS |        |     |       |    | Analys               | :: KJH |
| Diesel Range Organics (DRO)     | ND         | 9.9    |     | mg/Kg | 1  | 5/6/2016 6:49:57 PM  | 25139  |
| Surr: DNOP                      | 21.1       | 70-130 | S   | %Rec  | 1  | 5/6/2016 6:49:57 PM  | 25139  |
| EPA METHOD 8015D: GASOLINE RANG | GE         |        |     |       |    | Analys               | : NSB  |
| Gasoline Range Organics (GRO)   | ND         | 4.9    |     | mg/Kg | 1  | 5/4/2016 12:04:04 PM | 25130  |
| Surr: BFB                       | 95.0       | 80-120 |     | %Rec  | 1  | 5/4/2016 12:04:04 PM | 25130  |
| EPA METHOD 8021B: VOLATILES     |            |        |     |       |    | Analys               | :: NSB |
| Methyl tert-butyl ether (MTBE)  | ND         | 0.099  |     | mg/Kg | 1  | 5/4/2016 12:04:04 PM | 25130  |
| Benzene                         | ND         | 0.025  |     | mg/Kg | 1  | 5/4/2016 12:04:04 PM | 25130  |
| Toluene                         | ND         | 0.049  |     | mg/Kg | 1  | 5/4/2016 12:04:04 PM | 25130  |
| Ethylbenzene                    | ND         | 0.049  |     | mg/Kg | 1  | 5/4/2016 12:04:04 PM | 25130  |
| Xylenes, Total                  | ND         | 0.099  |     | mg/Kg | 1  | 5/4/2016 12:04:04 PM | 25130  |
| Surr: 4-Bromofluorobenzene      | 95.7       | 80-120 |     | %Rec  | 1  | 5/4/2016 12:04:04 PM | 25130  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 5/12/2016

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BL-2

 Project:
 B Banker
 Collection Date: 4/29/2016 12:00:00 PM

 Lab ID:
 1605079-002
 Matrix: SOIL
 Received Date: 5/3/2016 9:40:00 AM

| Analyses                        | Result     | PQL (  | )ual | Units | DF | Date Analyzed        | Batch |
|---------------------------------|------------|--------|------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS        |            |        |      |       |    | Analyst              | : LGT |
| Chloride                        | 120        | 30     |      | mg/Kg | 20 | 5/9/2016 2:26:42 PM  | 25197 |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS |        |      |       |    | Analyst              | : KJH |
| Diesel Range Organics (DRO)     | ND         | 9.9    |      | mg/Kg | 1  | 5/6/2016 7:11:48 PM  | 25139 |
| Surr: DNOP                      | 14.6       | 70-130 | S    | %Rec  | 1  | 5/6/2016 7:11:48 PM  | 25139 |
| EPA METHOD 8015D: GASOLINE RANG | E          |        |      |       |    | Analyst              | : NSB |
| Gasoline Range Organics (GRO)   | ND         | 4.8    |      | mg/Kg | 1  | 5/4/2016 10:50:01 PM | 25130 |
| Surr: BFB                       | 95.7       | 80-120 |      | %Rec  | 1  | 5/4/2016 10:50:01 PM | 25130 |
| EPA METHOD 8021B: VOLATILES     |            |        |      |       |    | Analyst              | : NSB |
| Methyl tert-butyl ether (MTBE)  | ND         | 0.096  |      | mg/Kg | 1  | 5/4/2016 10:50:01 PM | 25130 |
| Benzene                         | ND         | 0.024  |      | mg/Kg | 1  | 5/4/2016 10:50:01 PM | 25130 |
| Toluene                         | ND         | 0.048  |      | mg/Kg | 1  | 5/4/2016 10:50:01 PM | 25130 |
| Ethylbenzene                    | ND         | 0.048  |      | mg/Kg | 1  | 5/4/2016 10:50:01 PM | 25130 |
| Xylenes, Total                  | ND         | 0.096  |      | mg/Kg | 1  | 5/4/2016 10:50:01 PM | 25130 |
| Surr: 4-Bromofluorobenzene      | 96.5       | 80-120 |      | %Rec  | 1  | 5/4/2016 10:50:01 PM | 25130 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 5/12/2016

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BL-3

 Project:
 B Banker
 Collection Date: 4/29/2016 12:00:00 PM

 Lab ID:
 1605079-003
 Matrix: SOIL
 Received Date: 5/3/2016 9:40:00 AM

| Analyses                        | Result      | PQL (  | Qual | Units | DF | Date Analyzed        | Batch         |
|---------------------------------|-------------|--------|------|-------|----|----------------------|---------------|
| EPA METHOD 300.0: ANIONS        |             |        |      |       |    | Analyst              | : LGT         |
| Chloride                        | 55          | 30     |      | mg/Kg | 20 | 5/9/2016 2:39:06 PM  | 25197         |
| EPA METHOD 8015M/D: DIESEL RANG | GE ORGANICS |        |      |       |    | Analyst              | t: <b>KJH</b> |
| Diesel Range Organics (DRO)     | ND          | 9.8    |      | mg/Kg | 1  | 5/6/2016 7:33:46 PM  | 25139         |
| Surr: DNOP                      | 9.41        | 70-130 | S    | %Rec  | 1  | 5/6/2016 7:33:46 PM  | 25139         |
| EPA METHOD 8015D: GASOLINE RAN  | IGE         |        |      |       |    | Analyst              | t: NSB        |
| Gasoline Range Organics (GRO)   | ND          | 4.7    |      | mg/Kg | 1  | 5/4/2016 11:13:30 PM | 25130         |
| Surr: BFB                       | 97.1        | 80-120 |      | %Rec  | 1  | 5/4/2016 11:13:30 PM | 25130         |
| EPA METHOD 8021B: VOLATILES     |             |        |      |       |    | Analyst              | t: NSB        |
| Methyl tert-butyl ether (MTBE)  | ND          | 0.093  |      | mg/Kg | 1  | 5/4/2016 11:13:30 PM | 25130         |
| Benzene                         | ND          | 0.023  |      | mg/Kg | 1  | 5/4/2016 11:13:30 PM | 25130         |
| Toluene                         | ND          | 0.047  |      | mg/Kg | 1  | 5/4/2016 11:13:30 PM | 25130         |
| Ethylbenzene                    | ND          | 0.047  |      | mg/Kg | 1  | 5/4/2016 11:13:30 PM | 25130         |
| Xylenes, Total                  | ND          | 0.093  |      | mg/Kg | 1  | 5/4/2016 11:13:30 PM | 25130         |
| Surr: 4-Bromofluorobenzene      | 98.6        | 80-120 |      | %Rec  | 1  | 5/4/2016 11:13:30 PM | 25130         |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 5/12/2016

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BL-4

 Project:
 B Banker
 Collection Date: 4/29/2016 12:00:00 PM

 Lab ID:
 1605079-004
 Matrix: SOIL
 Received Date: 5/3/2016 9:40:00 AM

| Analyses                        | Result     | PQL Q  | ual | Units | DF  | Date Analyzed        | Batch |
|---------------------------------|------------|--------|-----|-------|-----|----------------------|-------|
| EPA METHOD 300.0: ANIONS        |            |        |     |       |     | Analyst              | LGT   |
| Chloride                        | 3500       | 150    |     | mg/Kg | 100 | 5/11/2016 3:17:06 AM | 25197 |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS |        |     |       |     | Analyst              | KJH   |
| Diesel Range Organics (DRO)     | ND         | 9.6    |     | mg/Kg | 1   | 5/6/2016 7:55:39 PM  | 25139 |
| Surr: DNOP                      | 9.15       | 70-130 | S   | %Rec  | 1   | 5/6/2016 7:55:39 PM  | 25139 |
| EPA METHOD 8015D: GASOLINE RANG | SE .       |        |     |       |     | Analyst              | NSB   |
| Gasoline Range Organics (GRO)   | ND         | 4.8    |     | mg/Kg | 1   | 5/5/2016 12:47:24 AM | 25130 |
| Surr: BFB                       | 94.2       | 80-120 |     | %Rec  | 1   | 5/5/2016 12:47:24 AM | 25130 |
| EPA METHOD 8021B: VOLATILES     |            |        |     |       |     | Analyst              | NSB   |
| Methyl tert-butyl ether (MTBE)  | ND         | 0.095  |     | mg/Kg | 1   | 5/5/2016 12:47:24 AM | 25130 |
| Benzene                         | ND         | 0.024  |     | mg/Kg | 1   | 5/5/2016 12:47:24 AM | 25130 |
| Toluene                         | ND         | 0.048  |     | mg/Kg | 1   | 5/5/2016 12:47:24 AM | 25130 |
| Ethylbenzene                    | ND         | 0.048  |     | mg/Kg | 1   | 5/5/2016 12:47:24 AM | 25130 |
| Xylenes, Total                  | ND         | 0.095  |     | mg/Kg | 1   | 5/5/2016 12:47:24 AM | 25130 |
| Surr: 4-Bromofluorobenzene      | 95.3       | 80-120 |     | %Rec  | 1   | 5/5/2016 12:47:24 AM | 25130 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 5/12/2016

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BL-5

 Project:
 B Banker
 Collection Date: 4/29/2016 12:00:00 PM

 Lab ID:
 1605079-005
 Matrix: SOIL
 Received Date: 5/3/2016 9:40:00 AM

| Analyses                        | Result     | PQL (  | )ual | Units | DF | Date Analyzed       | Batch         |
|---------------------------------|------------|--------|------|-------|----|---------------------|---------------|
| EPA METHOD 300.0: ANIONS        |            |        |      |       |    | Analys              | t: LGT        |
| Chloride                        | ND         | 30     |      | mg/Kg | 20 | 5/9/2016 3:03:54 PM | 25197         |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS |        |      |       |    | Analys              | t: <b>KJH</b> |
| Diesel Range Organics (DRO)     | ND         | 9.8    |      | mg/Kg | 1  | 5/6/2016 8:17:38 PM | 25139         |
| Surr: DNOP                      | 8.53       | 70-130 | S    | %Rec  | 1  | 5/6/2016 8:17:38 PM | 25139         |
| EPA METHOD 8015D: GASOLINE RANG | E          |        |      |       |    | Analys              | t: NSB        |
| Gasoline Range Organics (GRO)   | ND         | 4.6    |      | mg/Kg | 1  | 5/5/2016 1:10:55 AM | 25130         |
| Surr: BFB                       | 95.3       | 80-120 |      | %Rec  | 1  | 5/5/2016 1:10:55 AM | 25130         |
| EPA METHOD 8021B: VOLATILES     |            |        |      |       |    | Analys              | t: NSB        |
| Methyl tert-butyl ether (MTBE)  | ND         | 0.092  |      | mg/Kg | 1  | 5/5/2016 1:10:55 AM | 25130         |
| Benzene                         | ND         | 0.023  |      | mg/Kg | 1  | 5/5/2016 1:10:55 AM | 25130         |
| Toluene                         | ND         | 0.046  |      | mg/Kg | 1  | 5/5/2016 1:10:55 AM | 25130         |
| Ethylbenzene                    | ND         | 0.046  |      | mg/Kg | 1  | 5/5/2016 1:10:55 AM | 25130         |
| Xylenes, Total                  | ND         | 0.092  |      | mg/Kg | 1  | 5/5/2016 1:10:55 AM | 25130         |
| Surr: 4-Bromofluorobenzene      | 96.3       | 80-120 |      | %Rec  | 1  | 5/5/2016 1:10:55 AM | 25130         |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1605079** 

12-May-16

Client: Souder, Miller & Associates

**Project:** B Banker

Sample ID MB-25197 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 25197 RunNo: 34101

Prep Date: 5/6/2016 Analysis Date: 5/9/2016 SeqNo: 1051147 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-25197 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 25197 RunNo: 34101

Prep Date: 5/6/2016 Analysis Date: 5/9/2016 SeqNo: 1051148 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.4 90 110

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Released to Imaging: 10/1/2024 11:13:49 AM

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# Hall Environmental Analysis Laboratory, Inc.

WO#: 1605079 12-May-16

**Client:** Souder, Miller & Associates

**Project:** B Banker

Sample ID MB-25139 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: 25139 RunNo: 34001

Prep Date: 5/4/2016 Analysis Date: 5/5/2016 SeqNo: 1047876 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Diesel Range Organics (DRO) ND 10

Surr: DNOP 7.4 10.00 74.0 70 130

Sample ID 1605058-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **BatchQC** Batch ID: 25139 RunNo: 34001

Prep Date: 5/4/2016 Analysis Date: 5/5/2016 SeqNo: 1048316 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 49 10 50.05 0 97.0 33.9 141

Surr: DNOP 4.1 5.005 81.4 70 130

Sample ID 1605058-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **BatchQC** Batch ID: 25139 RunNo: 34001

Prep Date: 5/4/2016 Analysis Date: 5/5/2016 SeqNo: 1048317 Units: mg/Kg

LowLimit %RPD **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC HighLimit Qual Diesel Range Organics (DRO) 49 10 50.20 96.7 33.9 141 0.0323 20 Surr: DNOP 4.0 79.7 70 0 5.020 130

SampType: LCS Sample ID LCS-25139 TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 25139 RunNo: 34001

Analysis Date: 5/5/2016 Prep Date: 5/4/2016 SeqNo: 1048346 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Diesel Range Organics (DRO) 46 10 50.00 92.4 65.8 136 Surr: DNOP 3.7 5.000 74.0 70 130

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1605079** 

12-May-16

Client: Souder, Miller & Associates

**Project:** B Banker

Sample ID MB-25130 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 25130 RunNo: 33977

Prep Date: 5/3/2016 Analysis Date: 5/4/2016 SeqNo: 1047281 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 910 1000 91.4 80 120

Sample ID LCS-25130 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 25130 RunNo: 33977

Prep Date: 5/3/2016 Analysis Date: 5/4/2016 SeqNo: 1047282 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 0 86.8 80 120

Surr: BFB 970 1000 97.2 80 120

Sample ID 1605079-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BL-1** Batch ID: **25130** RunNo: **33977** 

Prep Date: 5/3/2016 Analysis Date: 5/4/2016 SeqNo: 1047284 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 26
 5.0
 24.98
 0
 102
 59.3
 143

 Surr: BFB
 1000
 999.0
 101
 80
 120

Sample ID 1605079-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BL-1** Batch ID: **25130** RunNo: **33977** 

Prep Date: 5/3/2016 Analysis Date: 5/4/2016 SeqNo: 1047285 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 27 5.0 24.78 107 59.3 143 4.02 20 Λ Surr: BFB 1000 991.1 103 80 120 0 0

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 8 of 10

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1605079

12-May-16

**Client:** Souder, Miller & Associates

**Project:** B Banker

Sample ID MB-25130 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: 25130 RunNo: 33977

Prep Date: 5/3/2016 Analysis Date: 5/4/2016 SeqNo: 1047315

Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Methyl tert-butyl ether (MTBE) 0.10 ND ND 0.025 Benzene 0.050 Toluene ND Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

1.000 Surr: 4-Bromofluorobenzene 0.93 92.9 80 120

| Sample ID LCS-25130            | SampT      | ype: <b>LC</b>  | S         | Tes         | tCode: E       | PA Method | 8021B: Vola | tiles |          |      |
|--------------------------------|------------|-----------------|-----------|-------------|----------------|-----------|-------------|-------|----------|------|
| Client ID: LCSS                | Batch      | n ID: <b>25</b> | 130       | F           | RunNo: 3       | 3977      |             |       |          |      |
| Prep Date: 5/3/2016            | Analysis D | oate: <b>5/</b> | 4/2016    | 9           | SeqNo: 1047316 |           |             | (g    |          |      |
| Analyte                        | Result     | PQL             | SPK value | SPK Ref Val | %REC           | LowLimit  | HighLimit   | %RPD  | RPDLimit | Qual |
| Methyl tert-butyl ether (MTBE) | 0.95       | 0.10            | 1.000     | 0           | 95.3           | 61        | 143         |       |          |      |
| Benzene                        | 1.0        | 0.025           | 1.000     | 0           | 100            | 75.3      | 123         |       |          |      |
| Toluene                        | 0.93       | 0.050           | 1.000     | 0           | 93.3           | 80        | 124         |       |          |      |
| Ethylbenzene                   | 0.88       | 0.050           | 1.000     | 0           | 88.0           | 82.8      | 121         |       |          |      |
| Xylenes, Total                 | 2.6        | 0.10            | 3.000     | 0           | 87.2           | 83.9      | 122         |       |          |      |
| Surr: 4-Bromofluorobenzene     | 0.93       |                 | 1.000     |             | 93.4           | 80        | 120         |       |          |      |

| Sample ID 1605082-001AMS       | SampTy      | pe: MS          | 5         | Tes         | tCode: El | PA Method | 8021B: Volat | iles |          |      |
|--------------------------------|-------------|-----------------|-----------|-------------|-----------|-----------|--------------|------|----------|------|
| Client ID: BatchQC             | Batch I     | ID: <b>25</b> ′ | 130       | R           | RunNo: 3  | 3977      |              |      |          |      |
| Prep Date: 5/3/2016            | Analysis Da | te: <b>5/</b>   | 4/2016    | S           | SeqNo: 1  | 047319    | Units: mg/K  | g    |          |      |
| Analyte                        | Result      | PQL             | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit    | %RPD | RPDLimit | Qual |
| Methyl tert-butyl ether (MTBE) | 0.98        | 0.098           | 0.9775    | 0           | 99.8      | 69.2      | 128          |      |          |      |
| Benzene                        | 1.1         | 0.024           | 0.9775    | 0           | 108       | 71.5      | 122          |      |          |      |
| Toluene                        | 0.99        | 0.049           | 0.9775    | 0           | 101       | 71.2      | 123          |      |          |      |
| Ethylbenzene                   | 0.95        | 0.049           | 0.9775    | 0           | 96.8      | 75.2      | 130          |      |          |      |
| Xylenes, Total                 | 2.8         | 0.098           | 2.933     | 0           | 96.4      | 72.4      | 131          |      |          |      |

0.9775

| Sample ID 1605082-001AMS       | D SampType: MSD TestCode: EPA Method 8021B: Volatiles |               |           |                             |          |          |           |       |          |      |
|--------------------------------|-------------------------------------------------------|---------------|-----------|-----------------------------|----------|----------|-----------|-------|----------|------|
| Client ID: BatchQC             | Batch                                                 | 1D: <b>25</b> | 130       | F                           | RunNo: 3 | 3977     |           |       |          |      |
| Prep Date: 5/3/2016            | 6 Analysis Date: 5/4/2016                             |               |           | SeqNo: 1047320 Units: mg/Kg |          |          |           |       |          |      |
| Analyte                        | Result                                                | PQL           | SPK value | SPK Ref Val                 | %REC     | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Methyl tert-butyl ether (MTBE) | 0.89                                                  | 0.099         | 0.9901    | 0                           | 90.3     | 69.2     | 128       | 8.72  | 20       |      |
| Benzene                        | 0.98                                                  | 0.025         | 0.9901    | 0                           | 99.2     | 71.5     | 122       | 7.34  | 20       |      |
| Toluene                        | 0.96                                                  | 0.050         | 0.9901    | 0                           | 96.7     | 71.2     | 123       | 2.87  | 20       |      |
| Ethylbenzene                   | 0.95                                                  | 0.050         | 0.9901    | 0                           | 96.0     | 75.2     | 130       | 0.454 | 20       |      |

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

Η Holding times for preparation or analysis exceeded

0.94

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

96.4

80

120

J Analyte detected below quantitation limits

Page 9 of 10

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1605079** 

12-May-16

Client: Souder, Miller & Associates

**Project:** B Banker

Sample ID 1605082-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: BatchQC Batch ID: 25130 RunNo: 33977

Prep Date: 5/3/2016 Analysis Date: 5/4/2016 SeqNo: 1047320 Units: mg/Kg

|   | 1 1ep Date. 3/3/2010       | Allalysis D | ate. <b>3</b> / | 4/2010    | 9           | eqivo. I | 047320   | Office. Hig/N | 9      |          |      |  |
|---|----------------------------|-------------|-----------------|-----------|-------------|----------|----------|---------------|--------|----------|------|--|
|   | Analyte                    | Result      | PQL             | SPK value | SPK Ref Val | %REC     | LowLimit | HighLimit     | %RPD   | RPDLimit | Qual |  |
| • | Xylenes, Total             | 2.8         | 0.099           | 2.970     | 0           | 95.3     | 72.4     | 131           | 0.0491 | 20       |      |  |
|   | Surr: 4-Bromofluorobenzene | 1.0         |                 | 0.9901    |             | 101      | 80       | 120           | 0      | 0        |      |  |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory 4901 Hawkins NE.

Website: www.hallenvironmental.com

Sample Log-In Check List

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

| Client Name: SMA-CARLSBAD                                                                               | Work Order Number          | 1605079   |             | ReptNo:                           | 1                  |
|---------------------------------------------------------------------------------------------------------|----------------------------|-----------|-------------|-----------------------------------|--------------------|
| Received by/date:                                                                                       | 05/3/12                    |           |             |                                   |                    |
| Logged By Lindsay Mangin                                                                                | 5/3/2016 9:40:00 AM        |           | of 4thgs    |                                   |                    |
| Completed By Lindsay, Mangin                                                                            | 5/3/2016 1:33:11 PM        |           | A 4Hbgs     |                                   |                    |
| Reviewed By:                                                                                            | 050311                     | . 1       | 000         |                                   |                    |
| Chain of Custody                                                                                        | 0 100/11                   | 1         |             |                                   |                    |
| 1. Custody seals intact on sample bottl                                                                 | es?                        | Yes 🗌     | No 🗌        | Not Present                       |                    |
| 2 Is Chain of Custody complete?                                                                         |                            | Yes 🗸     | No 🗆        | Not Present .                     |                    |
| 3 How was the sample delivered?                                                                         |                            | Couner    |             |                                   |                    |
| Log In                                                                                                  |                            |           |             |                                   |                    |
| 4. Was an attempt made to cool the sa                                                                   | imples?                    | Yes V     | No 🗌        | NA 🗆                              |                    |
| 5. Were all samples received at a temp                                                                  | cerature of >0° C to 6.0°C | Yes 🗸     | No 🗆        | NA 🗆                              |                    |
| 6. Sample(s) in proper container(s)?                                                                    |                            | Yes 🗸     | No 🗔        |                                   |                    |
| 7. Sufficient sample volume for indicate                                                                | d test(s)?                 | Yes V     | Na 🗀        |                                   |                    |
| 8, Are samples (except VOA and ONG                                                                      | properly preserved?        | Yes 🗸     | No. 🗌       |                                   |                    |
| 9. Was preservative added to bottles?                                                                   |                            | Yes       | No 🗸        | NA 🗆                              |                    |
| 10.VOA vials have zero headspace?                                                                       |                            | Yes 🗌     | No 🗆        | No VOA Vials 🔽                    |                    |
| 11. Were any sample containers receive                                                                  | ed broken?                 | Yes 🗌     | No V        | W-1-1-1-1-1-1-1                   |                    |
|                                                                                                         |                            |           |             | # of preserved<br>bottles checked |                    |
| <ol> <li>Does paperwork match bottle labels'<br/>(Note discrepancies on chain of cust</li> </ol>        |                            | Yes 🗸     | No          | for pH:                           | r >12 unless noted |
| 13. Are matrices correctly identified on C                                                              |                            | Yes V     | No 🗌        | Adjusted?                         | - 12 Dinesa notes  |
| 14, Is it clear what analyses were reques                                                               |                            | Yes V     | No 🗆        |                                   |                    |
| <ol> <li>Were all holding times able to be me<br/>(If no, notify customer for authorization)</li> </ol> |                            | Yes 🗸     | No.         | Checked by                        |                    |
| (ii iid, iidaiy Edatorie iid adelorizati                                                                | 50.7                       |           |             |                                   |                    |
| Special Handling (if applicable)                                                                        |                            |           |             |                                   |                    |
| <ol><li>Was client notified of all discrepancie</li></ol>                                               | es with this order?        | Yes       | No 🗌        | NA 🗹                              |                    |
| Person Natified:                                                                                        | Date                       |           |             |                                   |                    |
| By Whom:                                                                                                | Via:                       | eMail     | Phone 🗌 Fax | In Person                         |                    |
| Regarding:                                                                                              |                            |           |             |                                   |                    |
| Client Instructions;                                                                                    |                            |           |             |                                   |                    |
| 17 - Additional remarks:                                                                                |                            |           |             |                                   |                    |
| 18. Cooler Information                                                                                  | L Leumino, Leono III       | same or o | and a Tool  |                                   |                    |
| Cooler No Temp °C Condition                                                                             | on Seal Intact Seal No 3   | Seal Date | Signed By   |                                   |                    |

|                  | 244              |                             | Standard                | Rush                                    |             |                        |           | -            |                        | L           |                           |                                         |                     |             |
|------------------|------------------|-----------------------------|-------------------------|-----------------------------------------|-------------|------------------------|-----------|--------------|------------------------|-------------|---------------------------|-----------------------------------------|---------------------|-------------|
|                  |                  |                             |                         | *************************************** |             |                        |           | ANI          | 1                      | 777         | 3                         | 200                                     | ANALYSIS LABORATORY |             |
| Author Addans    |                  |                             | Project Name:           | ا دو                                    |             |                        | I         | WWW          | hallen                 | vironm      | www.hallenvironmental.com | шо                                      |                     |             |
| Mailing Address. | of is            | 0                           | (2)                     | 習を内                                     | 7           | 49                     | 01 Hav    | vkins N      | E - A                  | padae       | rdue, N                   | 4901 Hawkins NE - Albuquerque, NM 87109 |                     |             |
| TART             | コモーそうつか          | 07                          | Project #.              |                                         |             | ĭ                      | Tel. 505- | 505-345-3975 | 75                     | Fax 5       | 505-345-4107              | -4107                                   |                     |             |
| Phone #:         | 545              | 080 70to                    |                         |                                         |             |                        |           |              | Ana                    |             | Request                   |                                         |                     | B           |
| email or Fax#.   |                  |                             | Project Manag           | ger                                     |             |                        |           |              |                        |             | 5.7                       |                                         |                     |             |
| QAYOC Package    |                  | ☐ Level 4 (Full Validation) | AN                      | FYANT                                   |             |                        |           |              |                        | VE C 438    | bcB,                      |                                         |                     |             |
| Accreditation:   |                  |                             | Sampler                 | ren                                     | 100         | _                      | D) (C     | - 17         | ()                     | 2           | 3085                      | -                                       |                     | (1)         |
| D NELAP          | □ Other          |                             | On loe:                 | XYes                                    | ON C        | -                      | SIC       |              | _                      | I,EC        | 3/5                       | (A                                      |                     | 1 10        |
| □ EDD (Type)     |                  |                             | Sample Temperature:     | perature: 2.8                           | 2           | _                      | )8 b      |              | _                      | N/C         | _                         |                                         | _                   | <b>A</b> ): |
| Date Time        | Matrix           | Sample Request ID           | Container<br>Type and # | Preservative<br>Type                    | HEALNO.     | rm + Xəta<br>TM + Xəta | odieM H9T | TPH (Meth    | 8310 (PNA<br>RCRA 8 Me | JH) (enoinA | 8081 Pestic               | məS) 0728                               |                     | Air Bubbles |
| 4/2 Jan          | 1250             | BL-1                        | Hop                     |                                         | 100-        |                        | X         |              |                        | ×           | -                         |                                         |                     |             |
| 474 12:30        |                  | 34-2                        | _                       |                                         | -005        |                        | -         |              |                        |             |                           |                                         |                     |             |
| W. K. 120        |                  | 32-3                        |                         |                                         | -003        |                        |           |              | -                      |             |                           |                                         |                     |             |
| 4 14 N.          |                  | BL-4                        |                         |                                         | -001        |                        |           |              |                        | //          |                           |                                         |                     |             |
| 4/29/12/20       | >                | BL-5                        | >                       |                                         | -005        | ->                     | >         |              |                        | 7           |                           |                                         |                     |             |
|                  |                  |                             |                         |                                         |             |                        |           |              | +                      |             |                           |                                         | -                   | T           |
|                  |                  |                             |                         |                                         |             |                        |           |              | +                      |             |                           |                                         |                     |             |
|                  |                  |                             |                         |                                         |             |                        |           |              | +                      |             |                           |                                         |                     |             |
|                  |                  |                             |                         |                                         |             |                        |           |              |                        |             |                           |                                         |                     |             |
|                  | Relinquished by: | 5d by:                      | Received by:            | 8 dat 05,                               | 53/16 J     | Remarks                | 91        |              |                        |             |                           |                                         |                     |             |
| Date: Time:      | Relinquished by: | -/a ps                      | Received by:            |                                         | Date Time 1 |                        |           |              |                        |             |                           |                                         |                     |             |
|                  |                  |                             |                         |                                         |             |                        |           |              |                        |             |                           |                                         |                     |             |

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 26, 2017

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: Paul 2nd OrderNo.: 1706671

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 10 sample(s) on 6/13/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

**Analyses** 

**Analyses** 

Analyses

**Batch ID** 

**Batch ID** 

**Batch ID** 

#### **Analytical Report**

**DF** Date Analyzed

**DF** Date Analyzed

**DF Date Analyzed** 

Lab Order: 1706671

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/26/2017

| CLIENT:  | Souder, Miller & Associates | Lab Order: | 1706671 |
|----------|-----------------------------|------------|---------|
| Project: | Paul 2nd                    |            |         |

1706671-001 Lab ID: **Collection Date:** 6/7/2017 12:00:00 PM

Matrix: SOIL Client Sample ID: BG1-5 Result

**EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 43 30 mg/Kg 20 6/21/2017 11:21:24 AM 32409

**PQL Qual Units** 

**PQL Qual Units** 

1706671-002 **Collection Date:** 6/7/2017 12:00:00 PM Lab ID:

Client Sample ID: BG1-1 Matrix: SOIL

Result

**EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 2600 75 mg/Kg 50 6/22/2017 6:35:28 PM 32409

**Collection Date:** 6/7/2017 12:00:00 PM Lab ID: 1706671-003

Client Sample ID: BG1-2 Matrix: SOIL

**PQL Qual Units** Analyses Result **DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA

Chloride 3000 150 mg/Kg 100 6/22/2017 6:47:52 PM 32409

Lab ID: 1706671-004 **Collection Date:** 6/7/2017 12:00:00 PM

Client Sample ID: BG1-4 Matrix: SOIL

Result

**EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 5300 300 mg/Kg 200 6/22/2017 7:00:17 PM

**POL Oual Units** 

1706671-005 Lab ID: **Collection Date:** 6/7/2017 11:00:00 AM

Client Sample ID: BG2-5 Matrix: SOIL

**Analyses** Result **PQL Qual Units DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 30 mg/Kg 20 6/21/2017 1:00:40 PM 32409

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

#### Qualifiers: Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 3
- P Sample pH Not In Range
- RLReporting Detection Limit
- W Sample container temperature is out of limit as specified

**Batch ID** 

32409

**Batch ID** 

**Batch ID** 

#### **Analytical Report**

Lab Order: 1706671 Date Reported: 6/26/2017

20 6/21/2017 1:13:05 PM

**DF** Date Analyzed

**DF Date Analyzed** 

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Lab Order: 1706671

Project: Paul 2nd

Chloride

**Analyses** 

Analyses

1706671-006 **Collection Date:** 6/7/2017 11:00:00 AM Lab ID:

Matrix: SOIL Client Sample ID: BG2-1 Result

**Analyses PQL Qual Units DF** Date Analyzed **EPA METHOD 300.0: ANIONS** Analyst: MRA

30

**PQL Qual Units** 

mg/Kg

Lab ID: 1706671-007 **Collection Date:** 6/7/2017 11:00:00 AM

Client Sample ID: BG2-2 Matrix: SOIL

Result

530

**EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 1500 75 mg/Kg 50 6/22/2017 7:12:42 PM 32409

**Collection Date:** 6/7/2017 11:00:00 AM Lab ID: 1706671-008

Client Sample ID: BG2-4 Matrix: SOIL

**PQL Qual Units** Analyses Result **DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA

100 6/22/2017 7:25:07 PM Chloride 2600 150 mg/Kg 32409

Lab ID: 1706671-009 **Collection Date:** 6/7/2017 1:00:00 PM

Client Sample ID: A1-2 Matrix: SOIL

Result

**EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 650 30 mg/Kg 20 6/21/2017 1:50:18 PM

**POL Qual Units** 

Lab ID: 1706671-010 **Collection Date:** 6/7/2017 2:00:00 PM

Client Sample ID: A2-3 Matrix: SOIL

Analyses Result **PQL Qual Units DF Date Analyzed Batch ID** 

**EPA METHOD 300.0: ANIONS** Analyst: MRA

Chloride 1600 75 mg/Kg 50 6/22/2017 7:37:32 PM 32409

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Level.

> D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 3
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1706671** 

26-Jun-17

Client: Souder, Miller & Associates

**Project:** Paul 2nd

Sample ID MB-32409 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **32409** RunNo: **43687** 

Prep Date: 6/21/2017 Analysis Date: 6/21/2017 SeqNo: 1377078 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-32409 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 32409 RunNo: 43687

Prep Date: 6/21/2017 Analysis Date: 6/21/2017 SeqNo: 1377079 Units: mg/Kg

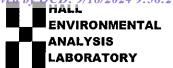
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.7 90 110

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 3 of 3



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

# Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: SMA-CARLSBAD Work Order Number: 1706671 RcptNo: 1 Received By: Richie Eriacho 6/13/2017 9:45:00 AM Completed By: Ashley Gallegos 6/13/2017 12:50:23 PM 06/13/17 ヒNM Reviewed By: Chain of Custody Yes  $\square$ No 🗌 Not Present ✓ 1. Custody seals intact on sample bottles? 2. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? Yes 🔽 No 🗌 NA 🗆 5. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 NA 🗀 Yes 🛂 Sample(s) in proper container(s)? Yes 🔽 No 🗌 7. Sufficient sample volume for indicated test(s)? Yes 🔽 No [ 8. Are samples (except VOA and ONG) properly preserved? Yes 🗸 9. Was preservative added to bottles? Yes  $\square$ No ☑ NA 🗆 10.VOA vials have zero headspace? Yes 🗌 No 🗌 No VOA Vials Yes 🗌 No 🗸 11. Were any sample containers received broken? # of preserved bottles checked No 🔲 for pH: 12. Does paperwork match bottle labels? Yes 🗸 (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗆 13. Are matrices correctly identified on Chain of Custody? Yes 🔽 No 🗌 Yes 🔽 14. Is it clear what analyses were requested? No 🗌 15. Were all holding times able to be met? Yes 🔽 Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 16. Was client notified of all discrepancies with this order? No 🗌 NA 🗹 Person Notified: Date By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Good Page 1 of 1

Released to Imaging:



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 30, 2017



Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: Matador Paul 2nd OrderNo.: 1706A44

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 21 sample(s) on 6/20/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

male

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 6/30/2017

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW2

**Project:** Matador Paul 2nd

**CLIENT:** Souder, Miller & Associates

**Collection Date:** 6/12/2017 10:30:00 AM

**Lab ID:** 1706A44-001

**Matrix:** SOIL **Received Date:** 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed         | Batch   |
|--------------------------|--------|--------|----------|--------------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          | Analy                    | st: MRA |
| Chloride                 | 5500   | 300    | mg/Kg    | 200 6/27/2017 4:36:37 AM | 1 32485 |
| Nitrogen, Nitrate (As N) | 8.4    | 6.0    | mg/Kg    | 20 6/26/2017 1:05:47 PM  | 1 32485 |
| Sulfate                  | 6400   | 300    | mg/Kg    | 200 6/27/2017 4:36:37 AM | 1 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW4

**CLIENT:** Souder, Miller & Associates **Project:** Matador Paul 2nd Collection Date: 6/12/2017 10:30:00 AM

Lab ID: 1706A44-002 Matrix: SOIL Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed       | Batch    |
|--------------------------|--------|--------|----------|----|---------------------|----------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy               | /st: MRA |
| Chloride                 | 120    | 30     | mg/Kg    | 20 | 6/26/2017 2:20:15 P | M 32485  |
| Nitrogen, Nitrate (As N) | 1.9    | 0.30   | mg/Kg    | 1  | 6/26/2017 1:43:01 P | M 32485  |
| Sulfate                  | 5800   | 75     | mg/Kg    | 50 | 6/27/2017 4:49:02 A | M 32485  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 23 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Matador Paul 2nd

**Lab ID:** 1706A44-003

Client Sample ID: SW5

**Collection Date:** 6/12/2017 10:30:00 AM

**Received Date:** 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 1000   | 30     | mg/Kg    | 20 | 6/26/2017 2:45:04 PM | 32485   |
| Nitrogen, Nitrate (As N) | 2.3    | 1.5    | mg/Kg    | 5  | 6/26/2017 2:32:40 PM | 32485   |
| Sulfate                  | 5400   | 75     | mg/Kg    | 50 | 6/27/2017 5:01:27 AN | 32485   |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**CLIENT:** Souder, Miller & Associates

Analytical Report
Lab Order 1706A44

Date Reported: 6/30/2017

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW6

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-004
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 19     | 7.5    | mg/Kg    | 5  | 6/26/2017 2:57:28 PM | 1 32485 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5  | 6/26/2017 2:57:28 PN | 32485   |
| Sulfate                  | 5300   | 75     | mg/Kg    | 50 | 6/27/2017 5:13:52 AN | 1 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW7

**Project:** Matador Paul 2nd

**CLIENT:** Souder, Miller & Associates

Collection Date: 6/12/2017 10:30:00 AM

Lab ID: 1706A44-005 Matrix: SOIL Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 15     | 7.5    | mg/Kg    | 5  | 6/26/2017 3:22:16 PM | 32485   |
| Nitrogen, Nitrate (As N) | 1.7    | 1.5    | mg/Kg    | 5  | 6/26/2017 3:22:16 PM | 32485   |
| Sulfate                  | 5100   | 75     | mg/Kg    | 50 | 6/27/2017 5:26:17 AM | 32485   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 23 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Matador Paul 2nd

**Lab ID:** 1706A44-006

Client Sample ID: SW8

**Collection Date:** 6/12/2017 10:30:00 AM

**Received Date:** 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 1200   | 75     | mg/Kg    | 50 | 6/27/2017 5:38:41 Al | M 32485 |
| Nitrogen, Nitrate (As N) | 1.9    | 1.5    | mg/Kg    | 5  | 6/26/2017 4:11:55 PI | M 32485 |
| Sulfate                  | 5100   | 75     | mg/Kg    | 50 | 6/27/2017 5:38:41 Al | M 32485 |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Matador Paul 2nd

**Lab ID:** 1706A44-007

Client Sample ID: SW9

**Collection Date:** 6/12/2017 10:30:00 AM

Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 140    | 7.5    | mg/Kg    | 5  | 6/26/2017 4:36:44 PM | M 32485 |
| Nitrogen, Nitrate (As N) | 2.8    | 1.5    | mg/Kg    | 5  | 6/26/2017 4:36:44 PM | M 32485 |
| Sulfate                  | 5100   | 75     | mg/Kg    | 50 | 6/27/2017 5:51:06 AM | M 32485 |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW11

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-008
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 87     | 7.5    | mg/Kg    | 5  | 6/26/2017 5:01:33 PI | M 32485 |
| Nitrogen, Nitrate (As N) | 3.1    | 1.5    | mg/Kg    | 5  | 6/26/2017 5:01:33 PI | M 32485 |
| Sulfate                  | 5300   | 75     | mg/Kg    | 50 | 6/27/2017 6:03:30 Af | M 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BH 2-3

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-009
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF 1 | Date Analyzed        | Batch  |
|--------------------------|--------|--------|----------|------|----------------------|--------|
| EPA METHOD 300.0: ANIONS |        |        |          |      | Analys               | t: MRA |
| Chloride                 | 3000   | 150    | mg/Kg    | 100  | 6/27/2017 6:15:54 AM | 32485  |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5    | 6/26/2017 5:26:23 PM | 32485  |
| Sulfate                  | 4100   | 150    | mg/Kg    | 100  | 6/27/2017 6:15:54 AM | 32485  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH 2-5.5

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-010
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed         | Batch   |
|--------------------------|--------|--------|----------|--------------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          | Analys                   | st: MRA |
| Chloride                 | 2100   | 150    | mg/Kg    | 100 6/27/2017 6:28:19 AM | 1 32485 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5 6/26/2017 5:51:13 PM   | 32485   |
| Sulfate                  | 7500   | 150    | mg/Kg    | 100 6/27/2017 6:28:19 AM | 1 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BH 2-10

**Project:** Matador Paul 2nd Collection Date: 6/12/2017 10:30:00 AM Lab ID: 1706A44-011 Matrix: SOIL Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF  | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|-----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |     | Analy                | st: MRA |
| Chloride                 | 1200   | 150    | mg/Kg    | 100 | 6/27/2017 9:08:03 AM | 32485   |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5   | 6/26/2017 6:40:51 PM | 32485   |
| Sulfate                  | 6300   | 150    | mg/Kg    | 100 | 6/27/2017 9:08:03 AM | 32485   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 11 of 23 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BH 4-1.5

**Project:** Matador Paul 2nd Collection Date: 6/12/2017 10:30:00 AM Lab ID: 1706A44-012 Matrix: SOIL Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 300    | 7.5    | mg/Kg    | 5  | 6/26/2017 7:05:40 PI | M 32485 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5  | 6/26/2017 7:05:40 PI | M 32485 |
| Sulfate                  | 5600   | 75     | mg/Kg    | 50 | 6/27/2017 9:20:27 Af | M 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 12 of 23 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-S

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-013
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qua   | l Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|-----------|---------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |           |         |    | Analys               | st: MRA |
| Chloride                 | 24     | 7.5       | mg/Kg   | 5  | 6/26/2017 7:30:29 PM | 32485   |
| Nitrogen, Nitrate (As N) | 6.3    | 1.5       | mg/Kg   | 5  | 6/26/2017 7:30:29 PM | 32485   |
| Sulfate                  | 4800   | <b>75</b> | mg/Kg   | 50 | 6/27/2017 9:32:52 AM | 32485   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 13 of 23

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-1

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-014
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF  | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|-----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |     | Analy                | st: MRA |
| Chloride                 | 1000   | 30     | mg/Kg    | 20  | 6/26/2017 8:07:43 PM | 1 32485 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5   | 6/26/2017 7:55:18 PN | 1 32485 |
| Sulfate                  | 7700   | 150    | mg/Kg    | 100 | 6/27/2017 9:45:17 AN | 1 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 14 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-2

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-015
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                        | Result | PQL Qua | al Units | DF Date Analyzed         | Batch   |
|---------------------------------|--------|---------|----------|--------------------------|---------|
| <b>EPA METHOD 300.0: ANIONS</b> |        |         |          | Analys                   | st: MRA |
| Chloride                        | 3200   | 150     | mg/Kg    | 100 6/27/2017 9:57:41 AM | 32503   |
| Nitrogen, Nitrate (As N)        | 1.5    | 1.5     | mg/Kg    | 5 6/26/2017 9:09:47 PM   | 32503   |
| Sulfate                         | 10000  | 150     | mg/Kg    | 100 6/27/2017 9:57:41 AM | 32503   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 15 of 23

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-3

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-016
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                        | Result | PQL Qu | al Units | DF Date Analyzed         | Batch    |
|---------------------------------|--------|--------|----------|--------------------------|----------|
| <b>EPA METHOD 300.0: ANIONS</b> |        |        |          | Analy                    | vst: MRA |
| Chloride                        | 4800   | 300    | mg/Kg    | 200 6/27/2017 10:10:05 A | M 32503  |
| Nitrogen, Nitrate (As N)        | 1.6    | 1.5    | mg/Kg    | 5 6/26/2017 9:59:26 PM   | M 32503  |
| Sulfate                         | 7800   | 300    | mg/Kg    | 200 6/27/2017 10:10:05 A | M 32503  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 16 of 23

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-4

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-017
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed         | Batch    |
|--------------------------|--------|--------|----------|--------------------------|----------|
| EPA METHOD 300.0: ANIONS |        |        |          | Analy                    | /st: MRA |
| Chloride                 | 4800   | 150    | mg/Kg    | 100 6/27/2017 10:22:30 A | AM 32503 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5 6/26/2017 10:24:16 F   | PM 32503 |
| Sulfate                  | 9500   | 150    | mg/Kg    | 100 6/27/2017 10:22:30 Å | AM 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 17 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BGC-6

**Project:** Matador Paul 2nd Collection Date: 6/12/2017 10:45:00 AM Lab ID: 1706A44-018 Matrix: SOIL Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qua | d Units | DF Date Analyzed         | Batch   |
|--------------------------|--------|---------|---------|--------------------------|---------|
| EPA METHOD 300.0: ANIONS |        |         |         | Analy                    | st: MRA |
| Chloride                 | 3500   | 150     | mg/Kg   | 100 6/27/2017 10:34:55 A | M 32503 |
| Nitrogen, Nitrate (As N) | ND     | 1.5     | mg/Kg   | 5 6/26/2017 10:49:05 P   | M 32503 |
| Sulfate                  | 5300   | 150     | mg/Kg   | 100 6/27/2017 10:34:55 A | M 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Е Value above quantitation range

Analyte detected below quantitation limits Page 18 of 23 J

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-8

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-019
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed       | Batch     |
|--------------------------|--------|--------|----------|------------------------|-----------|
| EPA METHOD 300.0: ANIONS |        |        |          | Ana                    | lyst: MRA |
| Chloride                 | 2400   | 150    | mg/Kg    | 100 6/27/2017 10:47:20 | AM 32503  |
| Nitrogen, Nitrate (As N) | 1.6    | 1.5    | mg/Kg    | 5 6/26/2017 11:38:45   | PM 32503  |
| Sulfate                  | 8300   | 150    | mg/Kg    | 100 6/27/2017 10:47:20 | AM 32503  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 19 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**CLIENT:** Souder, Miller & Associates

# Analytical Report Lab Order 1706A44

Date Reported: 6/30/2017

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BGC-10

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-020
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                        | Result | PQL Qua | l Units | DF Date Analyzed       | Batch      |
|---------------------------------|--------|---------|---------|------------------------|------------|
| <b>EPA METHOD 300.0: ANIONS</b> |        |         |         | Ana                    | alyst: MRA |
| Chloride                        | 2700   | 150     | mg/Kg   | 100 6/27/2017 10:59:44 | 4 AM 32503 |
| Nitrogen, Nitrate (As N)        | ND     | 1.5     | mg/Kg   | 5 6/27/2017 12:03:34   | I AM 32503 |
| Sulfate                         | 7200   | 150     | mg/Kg   | 100 6/27/2017 10:59:44 | 4 AM 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 20 of 23

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-12

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-021
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qua | al Units | DF Date Analyzed       | Batch    |
|--------------------------|--------|---------|----------|------------------------|----------|
| EPA METHOD 300.0: ANIONS |        |         |          | Analy                  | /st: MRA |
| Chloride                 | 1300   | 150     | mg/Kg    | 100 6/27/2017 11:36:58 | AM 32503 |
| Nitrogen, Nitrate (As N) | ND     | 1.5     | mg/Kg    | 5 6/27/2017 12:28:23 A | AM 32503 |
| Sulfate                  | 7100   | 150     | mg/Kg    | 100 6/27/2017 11:36:58 | AM 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 21 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### **OC SUMMARY REPORT**

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1706A44** 

%RPD

**RPDLimit** 

Qual

30-Jun-17

Client: Souder, Miller & Associates

**Project:** Matador Paul 2nd

Sample ID MB-32485 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 32485 RunNo: 43787

Prep Date: 6/26/2017 Analysis Date: 6/26/2017 SeqNo: 1380561 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Chloride
 ND
 1.5

 Nitrogen, Nitrate (As N)
 ND
 0.30

 Sulfate
 ND
 1.5

Sample ID LCS-32485 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 32485 RunNo: 43787

Prep Date: 6/26/2017 Analysis Date: 6/26/2017 SeqNo: 1380562 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit 91.1 Chloride 14 1.5 15.00 0 90 110 Nitrogen, Nitrate (As N) 7.1 0.30 7.500 0 94.2 90 110 0 93.7 90 Sulfate 28 1.5 30.00 110

Sample ID 1706A44-002AMS SampType: ms TestCode: EPA Method 300.0: Anions

Client ID: **SW4** Batch ID: **32485** RunNo: **43787** 

Prep Date: 6/26/2017 Analysis Date: 6/26/2017 SeqNo: 1380574 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Nitrate (As N) 8.7 0.30 7.500 1.907 90.0 61.8 142

Sample ID 1706A44-002AMSD SampType: msd TestCode: EPA Method 300.0: Anions
Client ID: SW4 Batch ID: 32485 RunNo: 43787

Prep Date: 6/26/2017 Analysis Date: 6/26/2017 SeqNo: 1380575 Units: mg/Kg

%RPD **RPDLimit** Analyte Result PQI SPK value SPK Ref Val %REC LowLimit HighLimit Qual Nitrogen, Nitrate (As N) 8.6 0.30 7.500 1.907 88.6 61.8 142 1.22 20

Sample ID MB-32503 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 32503 RunNo: 43787

Prep Date: 6/26/2017 Analysis Date: 6/26/2017 SeqNo: 1380605 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Chloride ND 1.5

 Chloride
 ND
 1.5

 Nitrogen, Nitrate (As N)
 ND
 0.30

 Sulfate
 ND
 1.5

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Released to Imaging: 10/1/2024 11:13:49 AM

Page 22 of 23

#### **QC SUMMARY REPORT**

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1706A44** *30-Jun-17* 

Client: Souder, Miller & Associates

**Project:** Matador Paul 2nd

Sample ID LCS-32503 SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 32503 RunNo: 43787 Analysis Date: 6/26/2017 Prep Date: 6/26/2017 SeqNo: 1380606 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride 93.3 90 14 1.5 15.00 0 110 Nitrogen, Nitrate (As N) 97.5 7.3 0.30 7.500 0 90 110 Sulfate 95.0 90 28 1.5 30.00 0 110

Sample ID 1706A44-015AMS TestCode: EPA Method 300.0: Anions SampType: ms RunNo: 43787 Client ID: BGC-2 Batch ID: 32503 Prep Date: 6/26/2017 Analysis Date: 6/26/2017 SeqNo: 1380610 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Nitrogen, Nitrate (As N) 1.546 88.5 61.8 8.2 1.5 7.500 142

Sample ID 1706A44-015AMSD SampType: msd TestCode: EPA Method 300.0: Anions Client ID: BGC-2 Batch ID: 32503 RunNo: 43787 Prep Date: 6/26/2017 Analysis Date: 6/26/2017 SeqNo: 1380611 Units: mg/Kg **RPDLimit** %REC %RPD Analyte SPK value SPK Ref Val LowLimit HighLimit Qual

87.7

61.8

0.768

20

Page 23 of 23

1.546

7.500

#### Qualifiers:

Nitrogen, Nitrate (As N)

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

## Sample Log-In Check List

| Client Name:                                              | SMA-CARLSBAD                                                | Work Order N                           | lumber: 1706A44                         |                                                                                                                 | RcptNo:                               | 1                     |
|-----------------------------------------------------------|-------------------------------------------------------------|----------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------|
| Received By:                                              | Sophia Campuzano                                            | 6/20/2017 10:1                         | 5:00 AM                                 | Josephie Gregor-                                                                                                |                                       |                       |
| Completed By:                                             | Richie Eriacho                                              | 6/20/2017 10:5                         | 4:47 AM                                 | 12-2                                                                                                            | ··                                    |                       |
| Reviewed By:                                              | Relas                                                       | 6/20/17                                |                                         | ; C                                                                                                             | · · · · · · · · · · · · · · · · · · · |                       |
| Chain of Cuate                                            | a du                                                        |                                        |                                         |                                                                                                                 |                                       |                       |
| Chain of Custo                                            |                                                             |                                        | Yes 🗌                                   | No 🗌                                                                                                            | Not Present <b>✓</b>                  |                       |
|                                                           | intact on sample bottles?                                   |                                        | Yes ∐<br>Yes ☑                          | No 🗆                                                                                                            | Not Present                           |                       |
| <ol> <li>Is Chain of Cu</li> <li>How was the s</li> </ol> |                                                             |                                        | Courier                                 | 140                                                                                                             | Not Flesetit 🗀                        |                       |
| 3, 110W Was the c                                         | ampio delivered:                                            |                                        | <u>5541101</u>                          |                                                                                                                 |                                       |                       |
| <u>Log In</u>                                             |                                                             |                                        |                                         |                                                                                                                 |                                       |                       |
| 4. Was an attem                                           | npt made to cool the samp                                   | es?                                    | Yes 🗹                                   | No 🗌                                                                                                            | NA 🗆                                  |                       |
| 5. Were all samp                                          | oles received at a tempera                                  | ture of >0° C to 6.0°                  | C Yes 🗹                                 | No 🗌                                                                                                            | na 🗆                                  |                       |
| 6. Sample(s) in p                                         | proper container(s)?                                        |                                        | Yes 🗸                                   | No .                                                                                                            |                                       |                       |
| 7. Sufficient sam                                         | ple volume for indicated te                                 | st(s)?                                 | Yes 🗹                                   | No 🗌                                                                                                            |                                       |                       |
| 8. Are samples (                                          | except VOA and ONG) pro                                     | perly preserved?                       | Yes 🗹                                   | No 🗆                                                                                                            |                                       |                       |
| 9. Was preserva                                           | tive added to bottles?                                      |                                        | Yes 🗌                                   | No 🗹                                                                                                            | NA 🗌                                  |                       |
| 10.VOA vials hav                                          | e zero headspace?                                           |                                        | Yes 🗌                                   | No 🗌                                                                                                            | No VOA Vials 🗹                        |                       |
| 11. Were any san                                          | nple containers received b                                  | roken?                                 | Yes                                     | No 🗹                                                                                                            |                                       |                       |
|                                                           |                                                             |                                        |                                         |                                                                                                                 | # of preserved bottles checked        |                       |
|                                                           | ork match bottle labels?                                    |                                        | Yes 🗸                                   | No 🗌                                                                                                            | for pH:                               | r >12 unless noted)   |
|                                                           | ancies on chain of custody<br>correctly identified on Chair |                                        | Yes 🗹                                   | No 🗆                                                                                                            | Adjusted?                             | i >12 dilless floted) |
|                                                           | t analyses were requested                                   | •                                      | Yes 🗹                                   | No □                                                                                                            | :<br>:                                |                       |
| 15. Were all holding                                      | ng times able to be met?<br>ustomer for authorization.)     |                                        | Yes 🗹                                   | No 🗆                                                                                                            | Checked by:                           |                       |
| Special Handli                                            | ng (if applicable)                                          |                                        |                                         |                                                                                                                 |                                       |                       |
|                                                           | ified of all discrepancies w                                | ith this order?                        | Yes 🗌                                   | No 🗆                                                                                                            | NA 🗹                                  |                       |
| Person I                                                  | Notified:                                                   |                                        | Date:                                   | i dell'i dell'i della compania della compania della compania della compania della compania della compania della |                                       | ••                    |
| By Who                                                    | m:                                                          | 21204. Marie James (11247. 1207. 1207. | Via: eMail                              | Phone 🗌 Fax                                                                                                     | ☐ In Person                           |                       |
| Regardii                                                  | ng:                                                         |                                        |                                         |                                                                                                                 | •                                     |                       |
| Client In                                                 | structions:                                                 |                                        |                                         |                                                                                                                 |                                       |                       |
| 17. Additional ren                                        | narks:                                                      |                                        |                                         |                                                                                                                 |                                       |                       |
| 18. Cooler Inform                                         |                                                             |                                        |                                         |                                                                                                                 | 1                                     |                       |
| Cooler No                                                 | Temp °C Condition  6.0 Good                                 | Seal Intact Seal                       | No Seal Date                            | Signed By                                                                                                       |                                       |                       |
| Ľ                                                         | G000                                                        |                                        |                                         |                                                                                                                 | I                                     |                       |
| Page 1 of                                                 | <u> </u>                                                    | and a second second                    | *************************************** |                                                                                                                 |                                       |                       |

Received by OCD: 9/18/2024 9:56:21 AM Page 494 of 874 Air Bubbles (Y or N) ANALYSIS LABORATORY HALL ENVIRONMENTAL mined in Hall Environmental may be subcontracted to other accredited taboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly rotated on the analytical report. 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 (AOV-ima2) 07S8 www.hallenvironmental.com **Analysis Request** 8081 Pesticides / 8082 PCB's CINO3/103/103/EOTEOT RCRA 8 Metals Tel. 505-345-3975 (SMIS 0728 to 0158) 2'HA9 EDB (Method 504 1) (1,814 boriteM) H9T (ORM \ ORG \ ORG) BE108 H91 Remarks BTEX + MTBE + TPH (Gas only) BTEX + MTBE + TMB's (8021) 80 RRUSH 5 day (Matador) -012 06/20/17 1015 1000 100 -007 2007 1000 010-1766 4464 280 100-1003 10-Time 8 HEAL NO. Matador: Paw 2nd ON U Austin Wedant Sample Temperature: (o.0) Preservative N Yes Turn-Around Time: Sampler: LCM Project Manager Project Name: □ Standard Type and # Container 1002 10K Project # On loe: Receive ☐ Level 4 (Full Validation) Sample Request ID Chain-of-Custody Record -55 BH 2-3 PH-19 BH2-10 SAMA - COUNSHAD (M) SWS SEB SW 9 5M+ SW2 3 N Relinquished by □ Other Matrix Relinquish Soll Chain-Chain-Chain-Chain-Chained Chained Address: 1900 Time DA/QC Package: 10.30 HI 10.30 C EDD (Type) email or Fax# Accreditation THE ☐ Standard O NELAP hone #: Dale Date

| Cleart          | CNA              | -ot-CL           | Chain-of-Custody Record     | Lurn-Around Time:       | IIMe:                   | W Bush F day (worder) |                                     | Î                 | ALL        | N                       | IRON                      | HALL ENVIRONMENTAL       | ATA |
|-----------------|------------------|------------------|-----------------------------|-------------------------|-------------------------|-----------------------|-------------------------------------|-------------------|------------|-------------------------|---------------------------|--------------------------|-----|
| to Im           |                  | 3                | 2000                        | Project Name:           |                         |                       |                                     | ₹ 5               | WW hallo   | STS                     | INALTSIS LABO             | WWW hallenvironments com | 5   |
| Mailing aging   | Mailing Address. | iń               |                             | Marado                  | 10r : Pa                | r: Paul 2nd.          | 4901                                | 4901 Hawkins NE   |            | Ibuquer                 | Albuquerque, NM 87109     | 87109                    |     |
| g: 10           |                  |                  |                             | Project #.              |                         |                       | Tel.                                | Tel. 505-345-3975 | 100        | Fax 5                   | Fax 505-345-4107          | 107                      |     |
| # euoud /1/2    | #                |                  |                             |                         |                         |                       |                                     |                   | Ans        | Analysis Request        | equest                    |                          | W   |
| 924             | r Fax#;          |                  |                             | Project Manager:        | ger                     |                       | (K)u                                | 1                 |            | Co                      |                           |                          |     |
| 11: OA/GC Packa | OA/GC Package:   |                  | ☐ Level 4 (Full Validation) | Austin                  | in Weyan                | ant w                 | io seĐ)                             | no e              | (SWI       | -                       | PCB's                     |                          |     |
| Accreditation   | itation          |                  |                             | Sampler:                | LCM J                   |                       | Hd.                                 | (1                | -          |                         | 2808                      | -                        |     |
| W II NELAP      | AP               | □ Other          | 1,1                         | On Ice:                 | XYes                    | □ No                  | 1 +                                 | .81               | 28         | 1"6                     |                           | (A                       |     |
| □ EDD (Type)    | (Type)           |                  |                             | Sample Tem              | Sample Temperature: 6.0 |                       | 38.                                 | þ þo              | 10 0       | 1/00                    | ()                        | ΟΛ-                      |     |
| Date            | Time             | Matrix           | Sample Request ID           | Container<br>Type and # | Preservative<br>Type    | HEAL NO.              | TM + X3T8<br>TM + X3T8<br>82108 H9T | TPH (Metho        | r£8) a'HA9 | M 8 AROR<br>O.T) anoinA | 8081 Pestic<br>8260B (VO. | imə2) 0728               |     |
| Kelpin          | 10:45            | [10]             | S- 2-50                     | (162 1 am               |                         | 100- 519-             |                                     |                   |            | _                       |                           |                          |     |
|                 | Ţ                |                  | BGC-1                       |                         |                         | -014 -04£             |                                     |                   | 5          | 1                       |                           |                          |     |
|                 |                  |                  | BGC-2                       |                         |                         | -015 -063             |                                     |                   |            | 1                       |                           |                          |     |
|                 |                  |                  | BGC - 3                     |                         |                         | 10- 110-              |                                     |                   |            | 1                       |                           |                          |     |
|                 |                  |                  | BGC - 4                     |                         |                         | -017 -005             |                                     |                   |            | 1                       |                           |                          |     |
|                 |                  |                  | 265- 6                      |                         |                         | -018 -cot             |                                     |                   |            | 2                       |                           |                          |     |
|                 |                  |                  | BGC-8                       |                         |                         | -019 - <del>607</del> |                                     |                   |            | 1                       |                           |                          |     |
|                 |                  |                  | 156C 10                     |                         |                         | -010-068              |                                     |                   |            | 2                       |                           |                          |     |
| -3              | >                | 7                | MgC-12                      | 4                       |                         | -07 1-00              |                                     |                   |            | /                       |                           |                          |     |
|                 |                  |                  |                             |                         |                         |                       |                                     |                   |            |                         |                           |                          |     |
|                 |                  |                  |                             |                         |                         |                       | 1                                   |                   |            |                         |                           |                          |     |
| Date:           | Time             | Relinquished by: | er by:                      | Received by             | 1                       | 6/9/7 0900            | Remarks:                            |                   |            |                         |                           |                          |     |
| Date:           | Time:            | Relinger         | hed by                      | Received by:            | }                       | Date Time             |                                     |                   |            |                         |                           |                          |     |

**Analytical Report** Lab Order 1706875 Date Reported:

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Tiger W1

**CLIENT:** Souder, Miller & Associates **Project:** Tiger W1 **Collection Date:** 6/13/2017 3:00:00 PM

1706875-001 Matrix: AQUEOUS Received Date: 6/15/2017 9:30:00 AM Lab ID:

| Analyses                     | Result | PQL ( | Qual | Units      | DF  | Date Analyzed         | Batch  |
|------------------------------|--------|-------|------|------------|-----|-----------------------|--------|
| CARBON DIOXIDE               |        |       |      |            |     | Analyst               | : JRR  |
| Total Carbon Dioxide         | 180    | 1.0   | Н    | mg CO2/L   | 1   | 6/15/2017 8:49:30 PM  | R43555 |
| SPECIFIC GRAVITY             |        |       |      |            |     | Analyst               | : JRR  |
| Specific Gravity             | 1.096  | 0     |      |            | 1   | 6/22/2017 1:34:00 PM  | R43724 |
| EPA METHOD 300.0: ANIONS     |        |       |      |            |     | Analyst               | : MRA  |
| Chloride                     | 100000 | 5000  | *    | mg/L       | 1E  | 6/24/2017 4:31:52 AM  | R43793 |
| Sulfate                      | 490    | 10    | *    | mg/L       | 20  | 6/16/2017 12:35:34 PM | R43601 |
| SM2320B: ALKALINITY          |        |       |      |            |     | Analyst               | : JRR  |
| Bicarbonate (As CaCO3)       | 150.6  | 20.00 |      | mg/L CaCO3 | 1   | 6/15/2017 8:49:30 PM  | R43555 |
| Carbonate (As CaCO3)         | ND     | 2.000 |      | mg/L CaCO3 | 1   | 6/15/2017 8:49:30 PM  | R43555 |
| Total Alkalinity (as CaCO3)  | 150.6  | 20.00 |      | mg/L CaCO3 | 1   | 6/15/2017 8:49:30 PM  | R43555 |
| SM2540C MOD: TOTAL DISSOLVED | SOLIDS |       |      |            |     | Analyst               | : KS   |
| Total Dissolved Solids       | 164000 | 2000  | *D   | mg/L       | 1   | 6/21/2017 5:49:00 PM  | 32389  |
| SM4500-H+B: PH               |        |       |      |            |     | Analyst               | : JRR  |
| рН                           | 6.77   |       | Н    | pH units   | 1   | 6/15/2017 8:49:30 PM  | R43555 |
| EPA METHOD 200.7: METALS     |        |       |      |            |     | Analyst               | pmf    |
| Barium                       | 3.4    | 0.040 | *    | mg/L       | 20  | 6/22/2017 3:04:53 PM  | 32391  |
| Calcium                      | 6800   | 100   |      | mg/L       | 100 | 6/22/2017 5:02:18 PM  | 32391  |
| Iron                         | 13     | 0.40  | *    | mg/L       | 20  | 6/22/2017 3:04:53 PM  | 32391  |
| Magnesium                    | 1000   | 20    |      | mg/L       | 20  | 6/22/2017 3:04:53 PM  | 32391  |
| Manganese                    | 1.1    | 0.040 | *    | mg/L       | 20  | 6/22/2017 3:04:53 PM  | 32391  |
| Potassium                    | 860    | 20    |      | mg/L       | 20  | 6/22/2017 3:04:53 PM  | 32391  |
| Sodium                       | 37000  | 1000  |      | mg/L       | 1E  | 6/22/2017 8:15:36 PM  | 32391  |
| Strontium                    | ND     | 0.20  |      | mg/L       | 20  | 6/22/2017 3:04:53 PM  | 32391  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 0 J
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

#### Hamlet, Robert, EMNRD

From: Hamlet, Robert, EMNRD
Sent: Friday, May 24, 2019 10:21 AM

**To:** 'Melodie Sanjari'

Cc: John Hurt; Heather Patterson; Venegas, Victoria, EMNRD; Bratcher, Mike, EMNRD

Subject: Closure Approval - Matador - Janie Conner Tank Battery (2RP-5289) 2.19.19

Attachments: Closure Approval - Matador - Janie Conner Tank Battery - (2RP-5289) 5.24.19.pdf

#### Melodie,

Baseline samples were collected prior to the construction of the Janie Conner Tank Battery. I thought we agreed to average the 3 samples and use 1,200 mg/kg? We'll give you the benefit of the doubt and go with 1,800 mg/kg, since one of the samples registered this concentration. In this particular case, having 3 samples taken from undisturbed land <a href="mailto:before">before</a> the tank battery was constructed is the type of evidence the OCD needs to see with regards to back-ground samples.

Back-ground samples at other sites in this area will be taken on a "case by case" basis. In your report you discuss several soil types and soil type mixtures in the Loving and Malaga area will return high sodium chloride levels in the absence of oil and gas production activities. Chlorides are a result of poor agricultural and irrigation practices in the area over the past century. This explains why samples at different depths and different sample locations range from such low level to drastically higher. This is one reason it is unlikely that we can take a blanket approach on background samples in this area. Each site will most likely have varying soil types and soil mixtures, requiring individual interpretation.

The L3 sample at 2 feet was "hot", but the closure five point composite Base sample at BH4 is essentially in the same area and under the limit.

We have received your closure report and final C-141 for <u>2RP-5289</u> Janie Conner Tank Battery, thank you. This closure is approved.

Please let me know if you have any further questions.

Regards,

Robert J Hamlet
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St., Artesia NM 88210
(575) 840-5963

Robert.Hamlet@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

From: Melodie Sanjari <melodie.sanjari@soudermiller.com>

Sent: Wednesday, May 15, 2019 3:29 PM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Venegas, Victoria, EMNRD

<Victoria.Venegas@state.nm.us>

Cc: John Hurt < JHurt@matadorresources.com>; Heather Patterson < heather.patterson@soudermiller.com>

Subject: [EXT] RE: Janie Conner Tank Battery Closure Report 2RP-5289

Good Afternoon All,

Please find the attached Closure Report associated with 2RP-5289; the Janie Conner Tank Battery. I know we discussed this one at length in person, if you have any questions or concerns please do not hesitate to reach out.

Have a lovely rest of your week!

#### **Melodie Sanjari** Staff Scientist



#### Souder, Miller & Associates

Engineering ◆ Environmental ◆ Surveying 201 S Halagueno Street Carlsbad, NM 88220 www.soudermiller.com (574) 370-9782 (cell) (505) 299-0942 Ext. 2204





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| Page 499 a | f 874 |
|------------|-------|
|            |       |

| Incident ID    |          |
|----------------|----------|
| District RP    | 2RP-5289 |
| Facility ID    |          |
| Application ID |          |

## Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

| 35-40 (ft bgs)         |
|------------------------|
| ☐ Yes ⊠ No             |
| ⊠ Yes □ No             |
| ☐ Yes ⊠ No             |
| ☐ Yes ⊠ No             |
| ☐ Yes ⊠ No             |
| ⊠ Yes □ No             |
| ☐ Yes ⊠ No             |
| rtical extents of soil |
|                        |
| lls.                   |
|                        |
|                        |
|                        |
|                        |
|                        |

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Page 4 OCD: 9/18/2024 9:56:21 Affate of New Mexico
Oil Conservation Division

Incident ID
District RP 2RP-5289
Facility ID
Application ID

| Page 501 of 87 | Page | <i>501</i> | of | 874 |
|----------------|------|------------|----|-----|
|----------------|------|------------|----|-----|

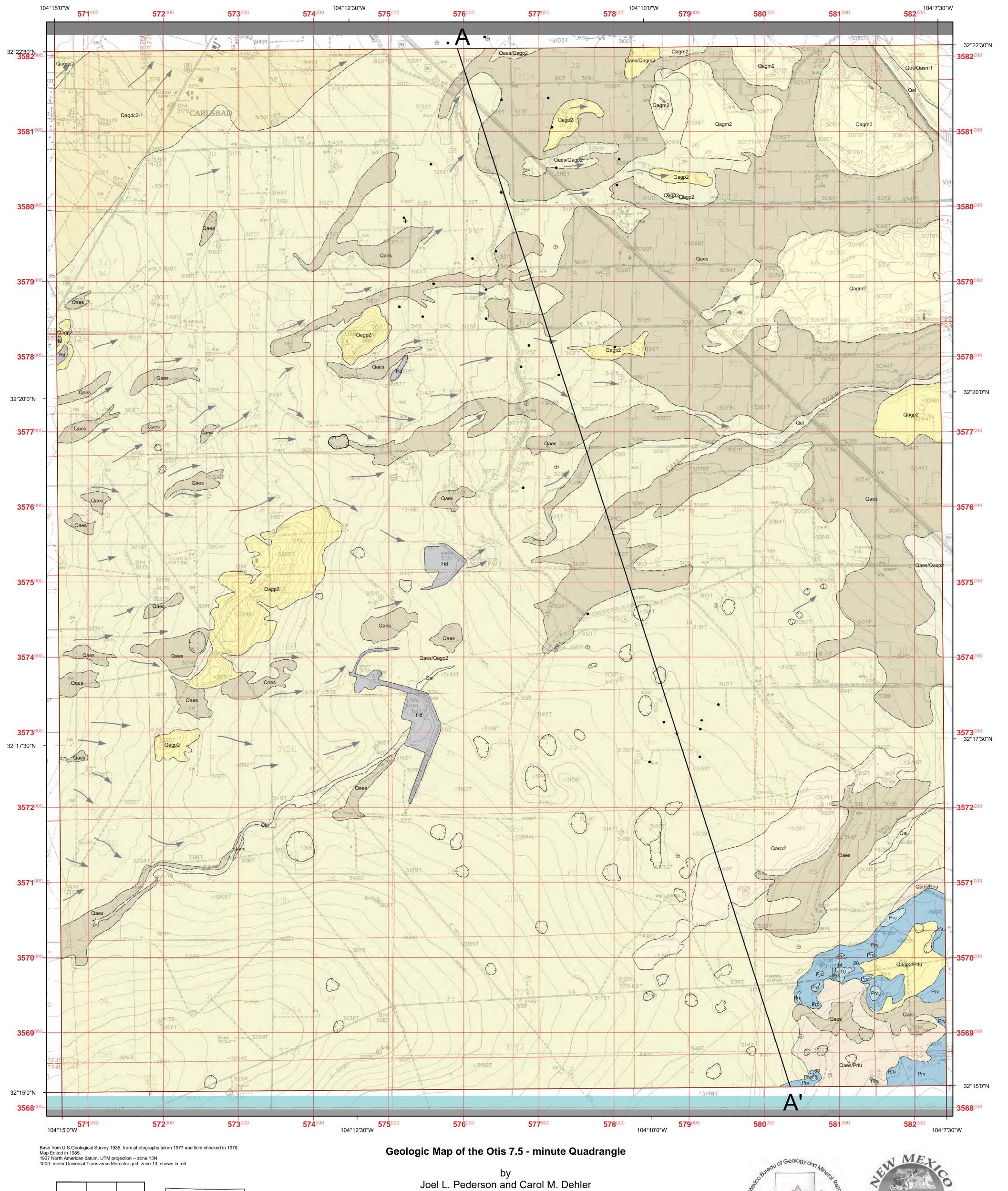
| Incident ID    |          |  |
|----------------|----------|--|
| District RP    | 2RP-5289 |  |
| Facility ID    |          |  |
| Application ID |          |  |

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

| Closure Report Attachment Checklist: Each of the following                                                                                                                                                                                                                                                                         | ng items must be included in the closure report.                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A scaled site and sampling diagram as described in 19.15.2                                                                                                                                                                                                                                                                         | 29.11 NMAC                                                                                                                                                                            |
| Photographs of the remediated site prior to backfill or pho must be notified 2 days prior to liner inspection)                                                                                                                                                                                                                     | otos of the liner integrity if applicable (Note: appropriate OCD District office                                                                                                      |
| ☐ Laboratory analyses of final sampling (Note: appropriate C                                                                                                                                                                                                                                                                       | DDC District office must be notified 2 days prior to final sampling)                                                                                                                  |
| Description of remediation activities                                                                                                                                                                                                                                                                                              | = asy = provide raman samprang)                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                       |
| I hereby certify that the information given shows in translation                                                                                                                                                                                                                                                                   | aplete to the best of my knowledge and understand that pursuant to OCD rules                                                                                                          |
| should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or regrestore, reclaim, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to the |                                                                                                                                                                                       |
| Printed Name: John Hurt Title: Signature:                                                                                                                                                                                                                                                                                          | RES specialist                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                    | Date: 3/19/19                                                                                                                                                                         |
| email: JHurt@matadorresources.com                                                                                                                                                                                                                                                                                                  | Telephone:972-371-5200                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                       |
| OCD Only                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                       |
| Received by: Robert Hamlet                                                                                                                                                                                                                                                                                                         | Date: _5/24/2019                                                                                                                                                                      |
| Closure approval by the OCD does not relieve the responsible par<br>remediate contamination that poses a threat to groundwater, surface<br>party of compliance with any other federal, state, or local laws are                                                                                                                    | rty of liability should their operations have failed to adequately investigate and ce water, human health, or the environment nor does not relieve the responsible nd/or regulations. |
| Closure Approved by:                                                                                                                                                                                                                                                                                                               | Date: 5/24/2019                                                                                                                                                                       |
| Printed Name: Robert Hamlet                                                                                                                                                                                                                                                                                                        | Title: Environmental Eng. Tech. III                                                                                                                                                   |

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<u>Description of map units—Otis Quadrangle</u>
Sediment color was estimated by comparing dry sediment to Munsell Color Chart (Munsell Color, 1994).

**Hd-disturbed areas (Holocene)**— Disturbance areas consisting of quarries and (or) dump areas that obscure the local geology.

**Qal-alluvium (Holocene)** Brown (7.5 YR 6/4), silt to sand, well sorted, subangular to subrounded, dominantly quartz with rare lithics, occupies draws and river channels and associated active floodplains. Little to no vegetation. Overlies or is inset into nearly all older units. Thickness 0-2m.

Qaes-alluvial and eolian deposits (Pleistocene (?) to Holocene)-Brown (7.5 YR 6/4), silty clay to silt to sand, well sorted, subangular to subrounded, grains composed of 70% quartz and 30% carbonate and chert. Weak soil development in upper 1.25 m: upper 15 cm of soil is massive silty clay to clayey silt, brown (7.5 YR 5/4), slightly plastic, bioturbated, effervesces strongly, local organic film with granular soil structure; gypsiferous and calcareous concretions decrease in abundance downward to 40 cm; and prismatic structure extends down to 1.25 m. Unit locally weathers into badlands and exhibits piping. Common veneer on nearly all Quaternary deposits in the map area and commonly overlies Qagp2, Qasp2, Prlu and Prv. Thickness ≤10 m.

Qasm1-alluvial sand mainstem (Pleistocene (?) to Holocene)- Light brown (7.5 YR 6/4), silt to fine-lower sand, subrounded to subangular, well sorted, massive, quartzose and lithic grains, scattered pebbles and rare cobbles dispersed within matrix, rare calcic nodules and laminated drapes of dark red mud. Surface nearly always reworked into coppice dunes. Top of unit forms a terrace (T1) 5 m above modern Pecos River and deposit is equivalent to flume sand in Carlsbad. May overlie or be inset into Qagm2. Thickness ≤10m.

Qagp2-alluvial sand and gravel piedmont (Pleistocene)-Pink (7.5 YR 8/3), fine upper-medium lower sand, subangular to rounded, well sorted, with rare grains of coarse sand and pebbles, grains dominated by quartz with lesser lithics. Gravel is matrix-supported to clast-supported and in many cases is well consolidated by calcite cement and conglomeratic. Gravel clast size is <35 cm dia, and grains are composed of quartz, yellow and orange and gray chert, tan siltstone, gray to tan limestones and dolomites, green, pink, and maroon quartzites, and accessory minerals. Clast composition is dominated by carbonates in center of quadrangle (by canal; all locally derived dolomites). Larger clast sizes in central-eastern part of quadrangle are are white to buff carbonates, rare chert, and very rare reddish quartzite. Gravel beds (meter-scale thickness), where exposed, are interbedded w/minor silty sandstone beds (cms thick) and are locally contorted. Sandstones are commonly crossbedded with tangential to planar-tabular foresets < 20 , some sets very low angle, sets in medium to thick beds, pebble stringers at base of crossbed sets, poorly to well developed imbrication. Paleocurrent from imbrication and crossbedding indicate dominantly easterly flow, with subordinate southerly and northeasterly flow directions. Calcrete (≤2-3 m thick): local carbonate nodules, bioturbation and contorted bedding in upper <1 m of unit grades into massive autobrecciated carbonate-rich sand with isolated</p> gravel clasts (~1.5 m thick) overlain by massive to vesicular autobrecciated calcrete in undulose, lenticular beds with internal laminations, pisolitic texture, local cemented sandstones and gravels (~0.5 m thick), and overlain by massive to laminated calcrete with pisolitic texture (upper 0.5 m), and a thin capping veneer of calcrete regolith with angular clasts of calcrete and chert clasts, reverse graded. This unit dominates the Otis Quadrangle and correlates to low bluffs on west side of Pecos River. Grades to Qagm2 and Qasp2. Overlies Prlu in SW corner of quadrangle. Thickness ~≤ 100 m (from cross section).

Qasp2-alluvial sand piedmont (Pleistocene) Brown(7.5 YR 7/3), silt and fine upper to medium lower sand, weakly to moderately consolidated with carbonate cement, matrix subangular to rounded, well sorted with rare grains of coarse sand and pebbles, grains dominated by quartz with lesser lithics. No gravel. Massive. Upper 40 cm is wavy tabular, generally finer than lower, slight organic stain, poorly exposed. Calcrete poorly to well developed (1-2 m thick) and is dominantly brecciated in sand and silt matrix. Unit is lateral fine-grained facies equivalent of Qagp2. Thickness ~≤ 70 m (from cross section).

Qagm2-alluvial gravel mainstem (Pleistocene) Pecos River gravel and sand, medium upper to coarse upper with lesser granules and pebbles (3-6 cm in dia, ave.), moderately sorted, well rounded, moderately to well cemented by calcite. Sand fraction is mostly quartz and chert. Pebbles are composed of red, tan, and gray quartzite, variegated cherts, gray limestone, yellow limestone, yellow siltstone, light grey and yellow dolomite, petrified wood, light tan and gray volcanic porphyry, bull quartz, and schist, yet dominated by locally derived carbonates and siliciclastics. Capped by calcrete (1.5 to 2 m thick), autobrecciated, laminar at top. Forms low mesas along Pecos River valley. Thickness ~≤ 70 m.

Qagdc2 alluvial gravels of Dark Canyon (Pleistocene)- Pink (7.5 YR 8/3) (matrix) and commonly medium gray(GLEY 7/10 Y) (clasts), fine sand to boulder gravel, subangular to rounded, locally-derived clasts of dolomite, limestone, siltstone, and sandstone, tabular to lenticular beds, crossbedded and imbricated, paleocurrent data indicate northeasterly flow. Calcrete cap (1-2 m thick). Correlates to other Qa2 deposits. Thickness >15 m.

Prc-Permian Rustler Formation, Culebra Dolomite Member (Ochoan)- cream to light gray (2.5 Y 7/1, 8/1, 8/2 and 7.5 Y2 8/1), finely crystalline, sugary dolomite and local limestone with distinctive vuggy texture, thin to medium bedded, prominently fractured, and associated with yellow(10 YR 6/6) crossbedded to ripple-laminated sandy dolomite and lesser gypsum. Contorted into local hills and depressions in southeast corner of quadrangle. Overlies Rustler clastics (Prv) with sharp contact. Thickness difficult to determine. Reported thickness of ≤ 12 m (e.g., Hill, 1999).

**Prv-Permian Rustler Formation, Virginia Draw Member (Ochoan)** Red siltstone to very fine sandstone, well sorted, subrounded to rounded, dominantly quartz, interbedded with green-red claystones in very thin to medium beds. Weathers into badlands. Exposed in southeast corner of map area and base of unit not exposed. Thickness ~75-100 m (from cross section).

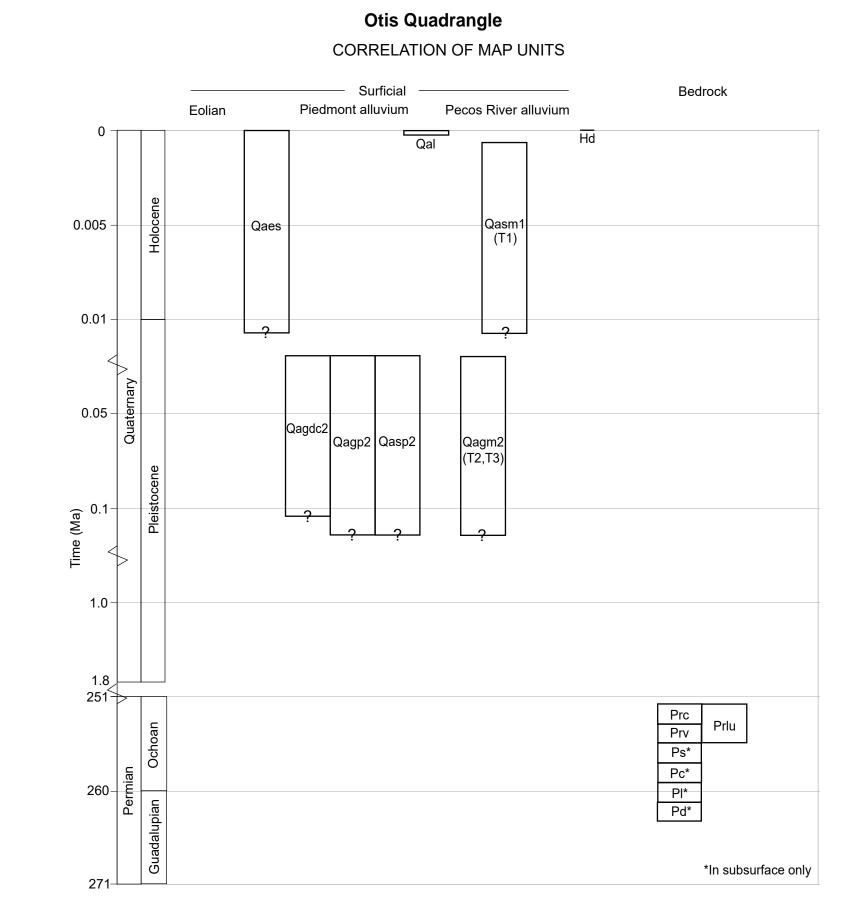
Prlu-Permian Rustler Formation, lower, undifferentiated (Ochoan)—Irregular masses of gypsum, dolomite, and salt in large blocks scattered on surface and outcrops with chaotic bedding orientations. Unit may include blocks of strata from the underlying Salado Formation. Exposed in SE corner of map area. Thickness

**Ps-Permian Salado Formation (Ochoan)**—In cross section only. Halite and anhydrite with subordinate potash salts, dolmite to silty-sandy dolomite, and claystone to siltstone. Thins to north-northwest, ~300-550 m thick.

**Pc-Permian Castille Formation (Ochoan)**—In cross section only. Anhydrite and interbedded halite. Thins to south-southeast, ~75-120 m thick.

PI-Permian Delaware Mountain Group, Bell Canyon Formation, Lamar Limestone Member (Ochoan- Guadalupian)—In cross section only. Limestone, siltstone, sandstone and shale. Thins to south-southeast. ~20-55 m thick.

Pd-Permian Delaware Mountain Group, undifferentiated (Guadalupian)—In cross section only. Sandstone, siltstone, and shale with subordinate limestone., >~150 m



Map symbols:

Bedding contact-dashed where approximately located or where interpreted from air photo

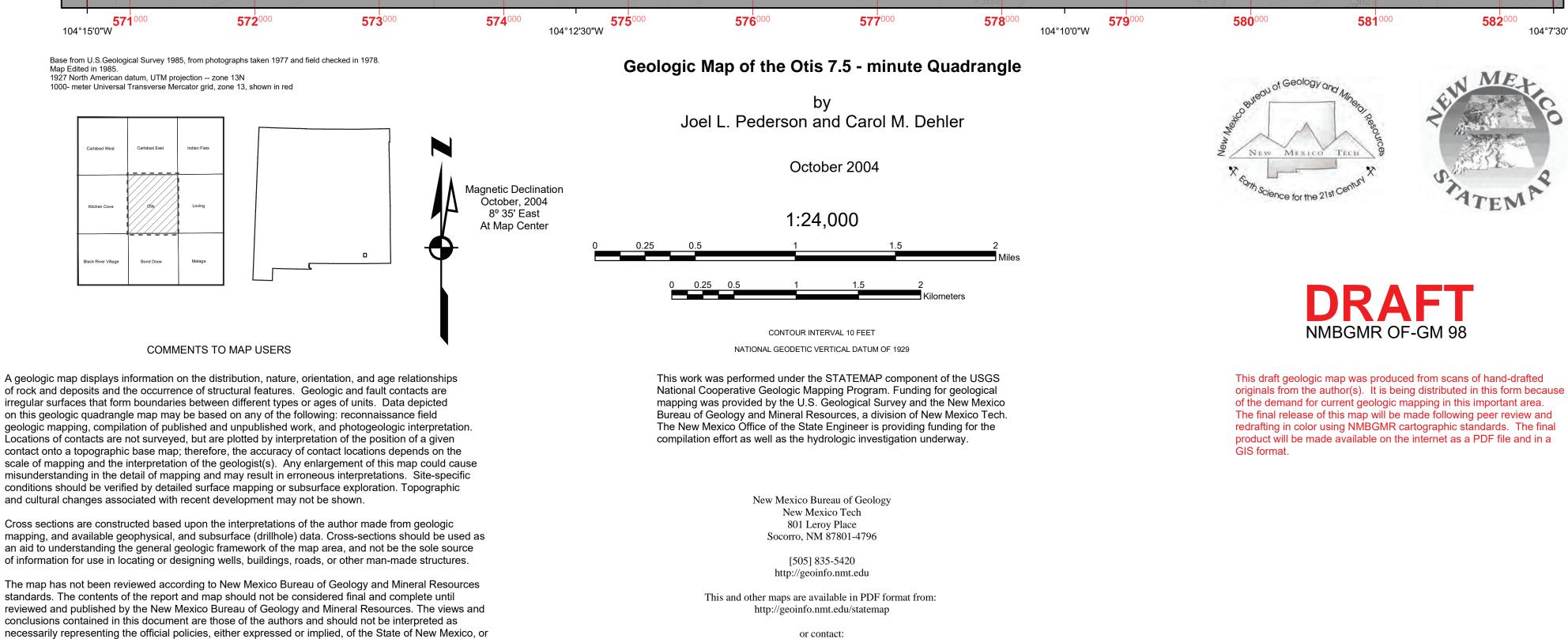
Pleistocene bar-and-swale paleocurrent indicators--from air photo interpretation,

only

Hatchures- indicate depression made by salt removal/collapse and (or) wind deflation

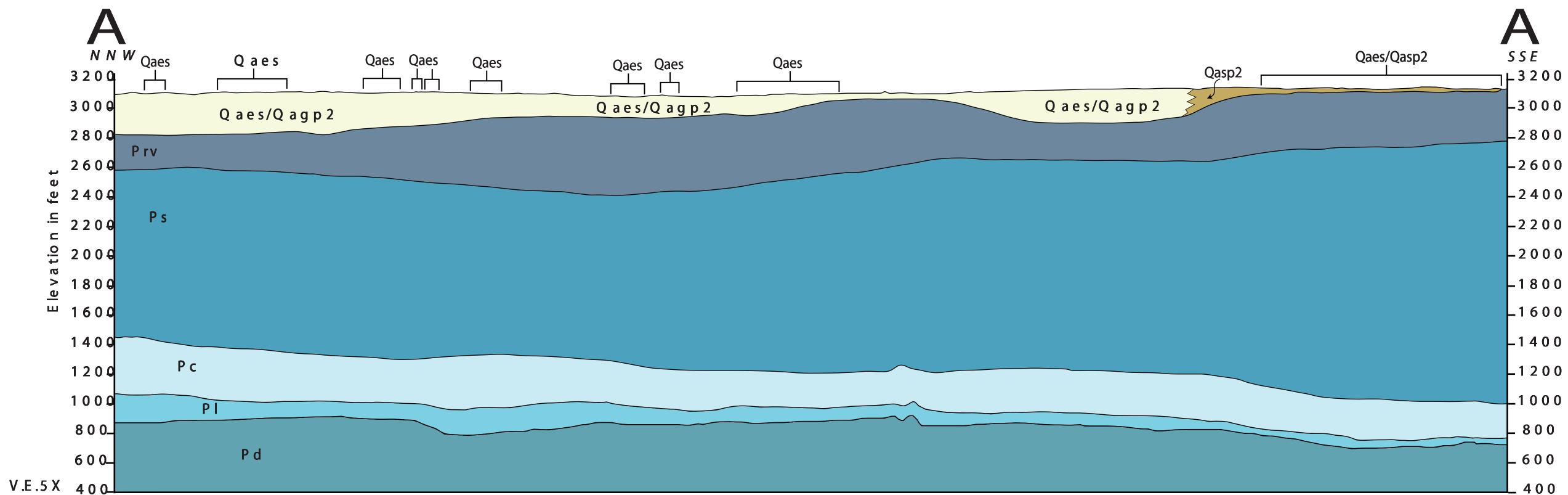
Oil/gas well location used in this study
 (suggested type logs for subsurface stratigraphic picks are logfile numbers 19546, 21649, 40114)

Water well location used in this study



NMBGMR Publications -- [505] 835-5410

NMBGMR Geologic Information Center -- [505] 835-5145



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the U.S. Government.

#### Received by OCD: 9/18/2024 9:56:21 AM

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NM OIL CONSERVATIONS 503 of 874 ARTESIA DISTRICT Form C-141
Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| Re  | lease | <b>Notifica</b> | tion a | nd Cor | rective | Action |
|-----|-------|-----------------|--------|--------|---------|--------|
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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------|-------------------|------------|--------------------------|---------------------------|-------------------|----------|----------------|-------------------------------|--|--|
| 1)/48/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7043         | U8884                      |                   | n00(10     | н (                      | <b>OPERAT</b>             | OR                | <b>y</b> | 🔲 Initia       | al Report Final Report        |  |  |
| Name of Company Matador Resources Company 22012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                            |                   |            |                          | Contact Catherine Green   |                   |          |                |                               |  |  |
| Address 500 N Main St Ste One Roswell NM 88201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                            |                   |            |                          | Telephone No.575-623-6601 |                   |          |                |                               |  |  |
| Facility Name Paul 25 24S 28E RB #221H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                            |                   |            | ] ]                      | Facility Typ              | e Oil             |          |                |                               |  |  |
| Surface Owner Fee Mineral Owner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                            |                   |            |                          | Fee API No.30-015-43018   |                   |          |                |                               |  |  |
| Surface OW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 100          |                            |                   |            |                          |                           |                   |          | 111110         | 15010                         |  |  |
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| Unit Letter Section Township Range Section the D Section 24S Section N South Line Section N South Line Section N Section N South Line Section N Section N Section N Section N Section |              |                            |                   |            |                          |                           |                   |          | County<br>Eddy |                               |  |  |
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| Type of Relea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ase Produce  | ed Water                   |                   | MAI        | UKE                      |                           | Release ~100BB    | Ls       | Volume F       | Recovered 80BBLs              |  |  |
| Source of Re                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |                            |                   |            |                          |                           | Iour of Occurrenc |          |                | Hour of Discovery Feb 3, 2017 |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                            |                   |            |                          | 3,20177a                  |                   |          | 7:30am         |                               |  |  |
| Was Immedia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ate Notice ( | _                          | ¬ ., г            |            |                          | If YES, To                |                   |          |                |                               |  |  |
| Required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              | хL                         | ⊥ Yes [           | □ No □ Not |                          | Crystal We                | eaver, voicemail  |          |                |                               |  |  |
| By Whom? C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                            |                   |            |                          |                           | Iour Feb. 3 2017  |          |                |                               |  |  |
| Was a Watero                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | course Read  | ched?                      | Yes x             | □ No       |                          | If YES, Vo                | olume Impacting t | he Wate  | ercourse.      |                               |  |  |
| If a Watercou                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | irse was Im  | pacted, Descr              | ibe Fully.        | *          |                          | 1                         |                   |          |                |                               |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                            | -                 |            |                          |                           |                   |          |                |                               |  |  |
| Describe Cause of Problem and Remedial Action Taken.*  Water recycling facility at Tiger was on Emergency Shut Down. Lease operator went to Paul location that sends water to Tiger. Found that separator Shut Down Valve had failed to close. Lease operator drove right of way to Tiger and found produced water on ground at (~32°11'52", 104°2'55".179999).  Well shut in to isolate line, vacuum truck called. Excavator dug down at spill sight, located pipe with hole it in. Crew replaced section of pipe. Excavated area currently fenced off. Vacuum truck removed 80 barrels of produced water. Replaced Shut Down Valve on separator.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |                            |                   |            |                          |                           |                   |          |                |                               |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              | and Cleanup Auare yards of |                   |            | nd rople<br>shvel<br>bee | rsation<br>h revis        | with opera        | tor 4    | this 80        | ntence                        |  |  |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                            |                   |            |                          |                           |                   |          |                |                               |  |  |
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| Signature: <i>Q</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | atherine G   | reen                       |                   |            |                          | Approved by               | Environmental S   | pecialis | Cus            | stalway                       |  |  |
| Printed Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | e: Catherine | e Green                    |                   |            |                          |                           | , · · · · ·       |          | V 7            |                               |  |  |
| Title: Regula                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | tory Analys  | st                         |                   |            |                          | Approval Da               | te: 3 13          | 71       | Expiration     | Date: N/H                     |  |  |
| E-mail Addre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ess:cgreen@  | matadorreso                | urces.com         |            |                          | Conditions o              | f Approval:       | ر م      | ala a d        | Attached Attached             |  |  |
| Date: Feb 6, Attach Addi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              | Pho<br>ets If Necess       | one:575-6<br>sary | 27-2453    |                          |                           | 10 CHU            | W        | مس             | 7/00 1111                     |  |  |

Form C-141

Revised August 8, 2011

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV

#### State of New Mexico **NM OIL CONSERVATION** Energy Minerals and Natural Resources ARTESIA DISTRICT

Oil Conservation Division

FEB Submit 1 Coppy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 South St. Francis Dr.

| 1220 S. St. Fran                          | cls Pr., Sant | a Fe, NM 87505                 | 5          | 1220<br>Sa                               |                   | e, NM 875                 | 505                         | DECE:                          | TVED.         |               | ,               |              |
|-------------------------------------------|---------------|--------------------------------|------------|------------------------------------------|-------------------|---------------------------|-----------------------------|--------------------------------|---------------|---------------|-----------------|--------------|
|                                           |               |                                | Rel        | ease Notific                             |                   |                           |                             | A STATE OF THE PERSON NAMED IN |               |               | $\overline{/}$  |              |
|                                           | \             |                                |            |                                          |                   | OPERAT                    |                             |                                |               | al Report     | ,<br>□          | Final Report |
| Name of Company Matader Resources Company |               |                                |            |                                          |                   |                           | herine Green                |                                |               |               |                 |              |
|                                           |               | St Ste One R                   |            | M 88201                                  |                   | Telephone No.575-623-6601 |                             |                                |               |               |                 |              |
| Facility Nar                              | ne Paul 25    | 24S 28E R                      | B #221H    |                                          |                   | Facility Typ              | e Oil                       |                                |               |               |                 |              |
| Surface Owner Fee Mineral Owne            |               |                                |            |                                          |                   | ree .                     |                             |                                | API No        | .30-015-43    | 018             |              |
|                                           |               |                                |            | LOC                                      | ATIO              | N OF RE                   | LEASE                       |                                |               |               |                 |              |
| Unit Letter                               | Section       | Township                       | Range      | Feet from the                            |                   | South Line                | Feet from the               | East/V                         | West Line     | County        |                 |              |
| D                                         | 25            | 24S                            | 28E        | 339                                      | N                 |                           | 217                         | X                              |               | Eddy          |                 |              |
|                                           | <u> </u>      | <u> </u>                       |            |                                          | 1                 | - · · ·                   | 101010707                   | <b>/</b>                       |               | <u> </u>      |                 |              |
|                                           |               | Latiti                         | ide_32.19  |                                          |                   |                           | -104.04872 <b>2</b> 6_      |                                |               |               |                 |              |
| m cn.                                     | D 1           | 1337                           |            | NA                                       | <u>ture</u>       | OF REL                    |                             | <u> </u>                       | 771 7         | 2 100         | NDDI -          |              |
| Type of Rele<br>Source of Re              |               |                                |            |                                          | $\overline{}$     |                           | Release ~100BE              |                                |               | Recovered 80  |                 | Feb 3, 2017  |
| Source of Re                              | icase pipen   | inc                            |            |                                          |                   | 3,20177                   | yh                          | ce reo                         | 7:30am        | Tiour or Dis  |                 | 100 5, 2017  |
| Was Immedia                               | ate Notice (  |                                | ן איני ו   | □ No □ Not                               |                   | YES, 70                   | Whom?<br>eaver, voicemail   |                                |               |               |                 |              |
| Required                                  |               | ΧL                             | _ res [    |                                          |                   | Cipsia W                  | eaver, voiceman             |                                |               |               |                 |              |
| By Whom? C                                | Catherine G   | reen                           |            |                                          |                   | Date and                  | Hour Feb. 3 2017            | 12:07pn                        | n             |               |                 |              |
| Was a Water                               | course Rea    |                                | Yes x      | □ No                                     |                   | If YES, V                 | Nume Impacting              | the Wate                       | ercourse.     |               |                 |              |
| If a Watercon                             | reco ruce Ier | pacted, Descr                  |            |                                          | _/                |                           | $\overline{}$               |                                |               |               |                 |              |
| ii a watercor                             | iise was iii  | ipacied, Desci                 | ibe rully. | •                                        |                   |                           |                             |                                |               |               |                 |              |
| <u> </u>                                  |               |                                |            |                                          |                   |                           |                             |                                |               |               |                 |              |
|                                           |               | lem and Reme                   |            | n Taken.* ency Shut Down.                | r<br>Lease or     | erator went t             | o Paul location it          | at sends                       | water to T    | iger. Found ( | that ser        | parator Shut |
| Down Valve                                | had failed    | to close. Leas                 | e operator | drove right of w                         | ay to Tig         | ger and found             | produced water              | on groun                       | nd at (~32°1  | 11'52", 104°  | <b>2'55".</b> 3 | 179999).     |
| Well shut in                              | to isolate li | ne, vacuum tr                  | uck called | . Excavator dug                          | down at           | spill sight, lo           | cated pipe with h           | ole 🏋 in.                      | Crew repl     | aced section  | of pipe         | e. Excavated |
| area currenu                              | y tenced of   | i. Vacuum iri                  | ick remov  | ed 80 barrels of p                       | roduced           | water. Repla              | ced Shut Down V             | aive ou                        | separator.    |               |                 |              |
|                                           |               |                                |            |                                          |                   |                           |                             |                                |               |               |                 |              |
| Describe Are                              | a Affected    | and Cleanup                    | Action Tal | ken/*                                    |                   |                           |                             |                                |               |               |                 |              |
|                                           |               |                                |            | pacted. Remove                           | and repla         | ace impacted              | soil.                       |                                |               |               |                 |              |
|                                           |               |                                | /          | /                                        |                   |                           |                             |                                |               |               |                 |              |
| ,                                         |               |                                |            |                                          |                   |                           |                             |                                |               |               |                 |              |
| I hereby certi                            | ify that the  | information g                  | iven abov  | e is true and comp<br>nd/or file certain | plete to t        | he best of my             | knowledge and               | understa                       | nd that pur   | suant to VM   | OCD r           | ules and     |
| public health                             | or the envi   | ironment. The                  | e acceptan | ce of a C-141 rep                        | ort by th         | e NMOCD n                 | narked as "Final I          | Report" (                      | does not rel  | ieve the oper | nator of        | f liability  |
| should their                              | operations l  | have failed to                 | agequately | y investigate and                        | remediat          | e contaminat              | ion that pose a th          | reat to g                      | round wate    | r, surface wa | iter, hu        | man health   |
|                                           |               | addition, NMC<br>ws and/or reg |            | ptance of a C-141                        | report d          | loes not reliev           | ve the operator of          | respons                        | ibility for c | compliance w  | ith any         | y other      |
| rederar, state                            | , or rocar ra |                                | uiutions.  |                                          |                   |                           | OIL CON                     | ISERV                          | ATION         | DIVISIO       | N               |              |
|                                           |               | . /                            |            |                                          |                   |                           |                             |                                |               | $\overline{}$ |                 |              |
| Signature: <i>C</i>                       | atherine G    | reen                           |            |                                          |                   | Approved by               | Environmental S             | Spacialia                      | Ca. 1         | 1             | 1. 1            |              |
| Printed Name                              | e: Catherin   | e Green                        |            |                                          |                   | Approved by               | Environmentar               | Specians                       | "ULA          | AUX           | N               | UN           |
| Title: Regula                             | torv Analy    | st /                           |            |                                          |                   | Approval Da               | ite:                        |                                | Expiration    | Date:         |                 |              |
| _                                         |               |                                |            |                                          |                   |                           |                             | •                              |               |               |                 |              |
| E-mail Addre                              | ess:cgreen(   | @matadorreso                   | urces.com  |                                          | $\longrightarrow$ | Conditions of             | aftach<br>ation is<br>impac | od                             | <u>.</u>      | Attached      | X               |              |
| Date: Feb 6,                              |               |                                | one:575-6  | 27-2453                                  |                   | WHS                       | attur                       | الالا                          | 7             |               |                 |              |
| ' Attach Addi                             | tional She    | ets If Neces                   | sary       |                                          | (                 | teline                    | ation is                    | s Ve                           | <i>iquir</i>  | ed            | c 1 -           |              |
| eleased to In                             | naging: 1     | 0/1/2024 11                    | :13:49 A   | l <b>M</b>                               | k                 | setore                    | . Impac                     | t (a                           | ri be         | e asses       | 220             | 1            |

#### Operator/Responsible Party,

The OCD has received the form C-141 you provided on 2/6/17 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 3/21/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

#### Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

## Weaver, Crystal, EMNRD

From:

Catherine Green < CGreen@matadorresources.com>

Sent:

Wednesday, February 8, 2017 2:17 PM

To:

Weaver, Crystal, EMNRD

**Subject:** 

Re: C-14120110808 Paul Pipeline Incident Feb 3 2017

Crystal,

Sorry. The plan is to remove and replace impacted soil. It has not happened yet. We have stopped the leak, and replaced the section of pipe that was leaking.

We will wait for you to approve a work plan before we touch the soil.

Hopefully this is more clear.

Thanks,

#### **Catherine Green**

Regulatory Analyst <u>575-627-2453</u> –office <u>720-220-7482</u> - mobile <u>972-629-2153</u> –direct fax

On Feb 8, 2017, at 1:48 PM, Weaver, Crystal, EMNRD < Crystal.Weaver@state.nm.us > wrote:

Hello Catherine,

I have looked over your initial C-141 and noticed something I needed to clarify that was mentioned in the section titled "Describe Area Affected and Cleanup Action Taken" (I attached your initial C-141 with my markings on it for your reference). In that section you mentioned that your organization had found the leak in the pipeline and dug out what was presumed to be the impacted soil material and then replaced it with clean soil material. If that is misunderstood then I apologize in advance. However, unless a full delineation and sampling was already done, I must now after the fact, still request it be done. We are getting very specific directives from our superiors to move forward with things to be done in the order requested within the Conditions of Approval (COA's). Immediate response actions are not to be discouraged, but delineation is still required along with verification sampling.

Thank you very kindly madam,

## **Crystal Weaver**

Environmental Specialist
OCD – Artesia District II
811 S. 1<sup>st</sup> Street
Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963 Fax: 575-748-9720

From: Catherine Green [mailto:CGreen@matadorresources.com]

Sent: Monday, February 6, 2017 1:38 PM

To: Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us >; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>

Subject: C-14120110808 Paul Pipeline Incident Feb 3 2017

Crystal or Mike,

Please find attached the C-141 for the Paul incident that occurred Friday, Feb. 3, 2017. I left Crystal a message concerning the issue. We will file a work plan.

Kind Regards,

Catherine Green Regulatory Analyst 575-627-2453-Office 720-220-7482-Mobile

This transmission is strictly confidential. If you are not the intended recipient of this message, you may not disclose, print, copy or disseminate this information. If you have received this in error, please reply and notify the sender (only) and delete the message. Unauthorized interception of this e-mail is a violation of federal criminal law. This communication does not reflect an intention by the sender or the sender's client or principal to conduct a transaction or make any agreement by electronic means. Nothing contained in this message or in any attachment shall satisfy the requirements for a writing, and nothing contained herein shall constitute a contract or electronic signature under the Electronic Signatures in Global and National Commerce Act, any version of the Uniform Electronic Transactions Act or any other statute governing electronic transactions.

<Matador Paul 25 Initial C-141 comments.pdf>

## Weaver, Crystal, EMNRD

From:

Weaver, Crystal, EMNRD

Sent:

Monday, February 6, 2017 3:30 PM

To:

Catherine Green; Bratcher, Mike, EMNRD

Subject:

RE: C-14120110808 Paul Pipeline Incident Feb 3 2017

Hello Madam,

Thank you Miss Catherine. I have been hopping and bopping around for the last few weeks, but I do want you to know that yes ma'am I got your voice message. Thank you for keeping us current on this one. I will get it back to you with the COA's along with it ASAP.

Sincerely,

## **Crystal Weaver**

Environmental Specialist
OCD – Artesia District II
811 S. 1<sup>st</sup> Street

Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963 Fax: 575-748-9720

From: Catherine Green [mailto:CGreen@matadorresources.com]

Sent: Monday, February 6, 2017 1:38 PM

To: Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us>; Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>

Subject: C-14120110808 Paul Pipeline Incident Feb 3 2017

Crystal or Mike,

Please find attached the C-141 for the Paul incident that occurred Friday, Feb. 3, 2017. I left Crystal a message concerning the issue. We will file a work plan.

Kind Regards,

Catherine Green Regulatory Analyst 575-627-2453-Office 720-220-7482-Mobile

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District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

## State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 ARTESIA DISTRICT
Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| 1220 S. St. Fran                                                   | cis Dr., Sant                                     | a Fe, NM 87505                                       | i                                           | Sa                                                                  | ınta Fe                              | , NM 875                                    | 05                                                                                                        |                                  |                                                            |                                                                |                                             |                                         |
|--------------------------------------------------------------------|---------------------------------------------------|------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------|--------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------|-----------------------------------------|
| NABI                                                               | 708,9                                             | 31596                                                | Rele                                        | ease Notific                                                        | cation                               | and Co                                      | rrective A                                                                                                | ction                            |                                                            |                                                                |                                             |                                         |
| _{ <del>}///8/</del>                                               | 704                                               | 108889                                               | ·                                           | 2000                                                                | 211                                  | <u>OPERAT</u>                               | OR                                                                                                        |                                  | x Initia                                                   | al Report                                                      |                                             | Final Report                            |
| Name of Co                                                         | mpany M                                           | atador Resou                                         | irces Con                                   | npany 2251                                                          | 71                                   | Contact Cat                                 | herine Green                                                                                              |                                  |                                                            |                                                                |                                             |                                         |
| Address 500                                                        | ) N Main                                          | St Ste One R                                         | oswell N                                    | M 88201                                                             | ,                                    | Telephone I                                 | No.575-623-660                                                                                            | 1                                |                                                            |                                                                |                                             |                                         |
| Facility Nat                                                       | ne Paul 25                                        | 5 24S 28E RI                                         | B #221H                                     |                                                                     |                                      | Facility Typ                                | e Oil                                                                                                     |                                  |                                                            |                                                                |                                             |                                         |
| Surface Ow                                                         | ner Fee                                           | ···                                                  |                                             | Mineral C                                                           | )wner F                              | ee                                          |                                                                                                           |                                  | API No                                                     | .30-015-43                                                     | 3018                                        |                                         |
|                                                                    |                                                   |                                                      |                                             | LOCA                                                                | ATIO                                 | N OF RE                                     | LEASE                                                                                                     |                                  |                                                            |                                                                |                                             |                                         |
| Unit Letter<br>D                                                   | Section<br>25                                     | Township 24S                                         | Range<br>28E                                | Feet from the 359                                                   |                                      | South Line                                  | Feet from the 217                                                                                         | East/\                           | West Line                                                  | County<br>Eddy                                                 |                                             |                                         |
|                                                                    |                                                   | Latitu                                               | ide_32.19                                   | 94817                                                               |                                      | Longitude                                   | -104.0487226_                                                                                             |                                  |                                                            |                                                                |                                             |                                         |
|                                                                    |                                                   |                                                      |                                             | NAT                                                                 | URE                                  | OF REL                                      | EASE                                                                                                      |                                  |                                                            |                                                                |                                             |                                         |
| Type of Rele                                                       |                                                   |                                                      |                                             |                                                                     |                                      |                                             | Release ~100BB                                                                                            |                                  |                                                            | Recovered 8                                                    |                                             |                                         |
| Source of Re                                                       | lease pipeli                                      | ine                                                  |                                             |                                                                     |                                      | Date and F<br>3, 2017 7a                    | lour of Occurrent                                                                                         | æ Feb                            | Date and 7:30am                                            | Hour of Dis                                                    | scovery                                     | Feb 3, 2017                             |
| Was Immedi                                                         | ate Notice                                        | Given?                                               |                                             |                                                                     |                                      | If YES, To                                  |                                                                                                           |                                  | , rio dalli                                                |                                                                |                                             |                                         |
| x Yes No Not                                                       |                                                   |                                                      |                                             |                                                                     |                                      |                                             | eaver, voicemail                                                                                          |                                  |                                                            |                                                                |                                             |                                         |
| By Whom? C                                                         | atherine G                                        | reen                                                 |                                             | · · · · · · · · · · · · · · · · · · ·                               |                                      | Date and I                                  | Iour Feb. 3 2017                                                                                          | 12:07pr                          | n                                                          |                                                                |                                             |                                         |
| Was a Water                                                        |                                                   |                                                      |                                             |                                                                     |                                      |                                             | olume Impacting                                                                                           |                                  |                                                            |                                                                |                                             |                                         |
|                                                                    |                                                   |                                                      | Yes x[                                      | □ No                                                                |                                      | ,                                           |                                                                                                           |                                  |                                                            |                                                                |                                             |                                         |
| If a Watercon                                                      | urse was In                                       | pacted, Descr                                        | ibe Fully.                                  | <u> </u>                                                            |                                      | 1                                           |                                                                                                           |                                  |                                                            |                                                                |                                             |                                         |
|                                                                    |                                                   |                                                      |                                             |                                                                     |                                      |                                             |                                                                                                           |                                  |                                                            |                                                                |                                             |                                         |
| Water recycl<br>Down Valve<br>Well shut in                         | ing facility<br>had failed<br>to isolate li       | to close. Leas                                       | on Emerge<br>e operator<br>uck called       | ncy Shut Down. It drove right of was. Excavator dug of              | ay to Tig<br>down at                 | ger and found<br>spill sight, lo            | o Paul location the<br>produced water of<br>cated pipe with he<br>ced Shut Down V                         | on groui<br>ole it in.           | nd at (~32°).<br>Crew repl                                 | 11'52", 104                                                    | °2'55".                                     | 179999).                                |
| Describe Are<br>Approximate                                        | ea Affected<br>ely 1,165 so                       | and Cleanup A                                        | Action Tal<br>surface im                    | nacted Damous                                                       | Cohve                                | rsation<br>h Kvis                           | with opera                                                                                                | tor '                            | this &                                                     | ntenu                                                          | L                                           |                                         |
| regulations a<br>public health<br>should their or<br>or the enviro | ll operators<br>or the envoperations<br>nment. In | s are required to<br>ironment. The<br>have failed to | o report and acceptant adequately DCD accep | nd/or file certain to<br>ce of a C-141 report<br>investigate and to | release n<br>ort by th<br>remediat   | otifications a<br>e NMOCD n<br>e contaminat | knowledge and to<br>nd perform corre-<br>narked as "Final Fi<br>ion that pose a the<br>re the operator of | ctive ac<br>Report"<br>reat to g | tions for redoes not red<br>ground water<br>sibility for o | eases which<br>lieve the oper,<br>sr, surface we<br>compliance | n may e<br>erator o<br>rater, hu<br>with an | endanger<br>of liability<br>uman health |
|                                                                    |                                                   |                                                      |                                             |                                                                     |                                      |                                             | OIL CON                                                                                                   | SERV                             | VATION                                                     | DIVISI                                                         | <u>ои</u>                                   |                                         |
| Signature: <i>(</i>                                                | atherine G                                        | breen                                                |                                             | _                                                                   | Approved by Environmental Specialist |                                             |                                                                                                           |                                  |                                                            |                                                                |                                             |                                         |

Approval Date:

Conditions of Approval:

\* Attach Additional Sheets If Necessary

Printed Name: Catherine Green

Title: Regulatory Analyst

is attached Attached & 2RP-413

Expiration Date:

E-mail Address:cgreen@matadorresources.com

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico NM OIL CONSERVATION Energy Minerals and Natural Resources ARTESIA DISTRICT

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr.

FEB Sabonian Coppy to appropriate District Office in accordance with 19.15.29 NMAC.

| 1220 S. St. Plan                                                                       | Cis Di., Sain                                            | a re, mivi o/Ju.                            |                                                |                                                         | Santa F                                 | e, NM 87                                | 505                                                                                                     | DECE                                  | IVED                                         |                                                |                                 | <u> </u>                                |
|----------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------|------------------------------------------------|---------------------------------------------------------|-----------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------|------------------------------------------------|---------------------------------|-----------------------------------------|
|                                                                                        | 1                                                        |                                             | Rel                                            | ease Noti                                               | ficatio                                 | n and C                                 | orrective A                                                                                             | ction                                 |                                              |                                                | $\overline{/}$                  |                                         |
|                                                                                        |                                                          |                                             |                                                |                                                         |                                         | <b>OPERA</b>                            | OR                                                                                                      |                                       | x Initi                                      | al Report                                      |                                 | Final Report                            |
|                                                                                        |                                                          | atader Resou                                |                                                |                                                         | Contact Catherine Green                 |                                         |                                                                                                         |                                       |                                              |                                                |                                 |                                         |
| Address 500 N Main St Ste One Roswell NM 88201 Facility Name Paul 25 24S 28P R B #221H |                                                          |                                             |                                                |                                                         |                                         |                                         | No.575-623-660                                                                                          | 01                                    |                                              | /                                              |                                 |                                         |
| Facility Name Paul 25 24S 28E RB #221H                                                 |                                                          |                                             |                                                |                                                         |                                         | Facility Ty                             | pe Oil                                                                                                  |                                       | /                                            | <u></u>                                        |                                 |                                         |
| Surface Owner Fee Mineral Owner                                                        |                                                          |                                             |                                                |                                                         |                                         | Fee                                     |                                                                                                         |                                       | API No                                       | .30-015-4                                      | 3018                            |                                         |
|                                                                                        |                                                          |                                             |                                                | LO                                                      | CATIO                                   | N OF RE                                 | LEASE                                                                                                   |                                       |                                              |                                                |                                 |                                         |
| Unit Letter<br>D                                                                       | Section<br>25                                            | Township<br>24S                             | Range<br>28E                                   | Feet from the                                           | e Norti<br>N                            | n/South Line                            | Feet from the 217                                                                                       | East/\                                | West Line                                    | County<br>Eddy                                 |                                 |                                         |
|                                                                                        | <u> </u>                                                 | Latitu                                      | ude_32.1                                       | 94817                                                   |                                         | _ Longitud                              | e-104.04872 <b>2</b> 6_                                                                                 |                                       |                                              | -                                              |                                 |                                         |
|                                                                                        |                                                          |                                             |                                                | N/                                                      | ATURE                                   | OF REL                                  |                                                                                                         |                                       |                                              |                                                |                                 |                                         |
| Type of Rele                                                                           |                                                          |                                             |                                                |                                                         |                                         | Volume o                                | f Release ~100BI                                                                                        | 3Ls                                   |                                              | Recovered 8                                    |                                 |                                         |
| Source of Re                                                                           | elease pipeli                                            | ne                                          |                                                |                                                         | \                                       | Date and 3, 2017 7                      | How of Occurren                                                                                         | ce Feb                                | Date and 7:30am                              | Hour of Dis                                    | scovery                         | y Feb 3, 2017                           |
| Was Immedi                                                                             | ate Notice (                                             |                                             |                                                |                                                         |                                         | KYES, 7                                 | o Whom?                                                                                                 |                                       | ,ouiii                                       |                                                |                                 |                                         |
| Required                                                                               |                                                          | x[                                          | ∐ Yes                                          | □ No □ N                                                | ot                                      | Cr)stal/W                               | eaver, voicemail                                                                                        |                                       |                                              |                                                |                                 |                                         |
| By Whom? (                                                                             |                                                          |                                             |                                                |                                                         |                                         |                                         | Hour Feb. 3 2017                                                                                        |                                       |                                              |                                                |                                 |                                         |
| Was a Water                                                                            | course Read                                              |                                             | ] Yes x                                        | □ No                                                    |                                         | If YES, V                               | olume Impacting                                                                                         | the Wat                               | ercourse.                                    |                                                |                                 |                                         |
| If a Waterco                                                                           | urse was Im                                              | pacted, Descr                               | ribe Fully.                                    | *                                                       | /                                       |                                         |                                                                                                         |                                       |                                              |                                                |                                 |                                         |
|                                                                                        |                                                          |                                             |                                                |                                                         |                                         |                                         |                                                                                                         |                                       |                                              |                                                |                                 |                                         |
| Down Valve<br>Well shut in                                                             | had failed to isolate lin                                | to close. Leas                              | se operator<br>uck called                      | r drove right of<br>. Excavator du                      | f way to Ti                             | ger and found<br>spill sight, lo        | to Paul location to<br>I produced water<br>scated pipe with h<br>sced Shut Down V                       | on groun<br>ole it in.                | nd at (~32°)<br>Crew repl                    | 11'52", 104'                                   | °2'55".                         | .179999).                               |
|                                                                                        |                                                          | and Cleanup                                 |                                                |                                                         |                                         |                                         |                                                                                                         |                                       | $\overline{}$                                |                                                |                                 |                                         |
| Approximate                                                                            | ely 1,165 sq                                             | uare yards of                               | surface in                                     | ipacted. Remo                                           | ve and rep                              | lace impacted                           | l soil.                                                                                                 |                                       |                                              | \                                              |                                 |                                         |
|                                                                                        |                                                          |                                             | /                                              | 7                                                       |                                         |                                         |                                                                                                         |                                       |                                              |                                                |                                 |                                         |
| regulations a<br>public health<br>should their<br>or the enviro                        | all operators<br>or the envi<br>operations honment. In a | are required to ronment. The nave failed to | to report a e acceptan adequately CD acceptant | nd/or file certa<br>ce of a C-141 i<br>y investigate ai | in release<br>report by t<br>nd remedia | notifications<br>he NMOCD international | y knowledge and<br>and perform corre<br>narked as "Final I<br>tion that pose a th<br>ve the operator of | ective act<br>Report" of<br>reat to g | tions for red<br>does not red<br>round water | leases which<br>lieve the ope<br>er, surface w | n may e<br>erator c<br>rater, h | endanger<br>of liability<br>uman health |
| -                                                                                      |                                                          |                                             |                                                |                                                         |                                         |                                         | OIL CON                                                                                                 | ISERI                                 | /ATION                                       | DIVISI                                         | ON                              |                                         |
| Signature: <i>E</i>                                                                    | Patherine G                                              | reen                                        |                                                |                                                         |                                         | Approved b                              | y Environmental :                                                                                       | Specialis                             | st: [ n 1                                    | An ()                                          | 1.                              | La A                                    |
| Printed Nam                                                                            | e: Catherine                                             | e Green                                     |                                                | <del></del>                                             |                                         |                                         | -                                                                                                       | <u>-</u>                              |                                              | THE T                                          | <u> </u>                        | MAN                                     |
| Title: Regula                                                                          | atory Analys                                             | st                                          |                                                |                                                         |                                         | Approval D                              | ate:                                                                                                    |                                       | Expiration                                   | Date:                                          |                                 | <u>.</u>                                |
| E-mail Addr                                                                            | ess:cgreen@                                              | matadorreso                                 | urces.com                                      | <u> </u>                                                |                                         | Conditions                              | of Approval:                                                                                            | . 1                                   |                                              | Attache                                        | d <b>X</b> 1                    |                                         |
| Date: Feb 6                                                                            |                                                          |                                             | one:575-6                                      | 27-2453                                                 |                                         | COAS                                    | aftach<br>ation is                                                                                      | ld                                    | +                                            | 111111111111111111111111111111111111111        | - ~                             |                                         |
| Attach Add                                                                             |                                                          |                                             | •                                              |                                                         |                                         | deline                                  | ation is                                                                                                | s VE                                  | quir                                         | ed                                             | cca-                            | 1                                       |
| eleased to In                                                                          | naging: 10                                               | V1/2024 11:                                 | 13:49 A                                        | W                                                       |                                         | he fine                                 | . IMPAC                                                                                                 | t ca                                  | ri ba                                        | e asse                                         | 7 <i>3</i> 66                   | <b>∧</b> .                              |

#### Operator/Responsible Party,

The OCD has received the form C-141 you provided on 2/6/17 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 3/21/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

#### Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

## Weaver, Crystal, EMNRD

From:

Catherine Green < CGreen@matadorresources.com>

Sent:

Wednesday, February 8, 2017 2:17 PM

To:

Weaver, Crystal, EMNRD

Subject:

Re: C-14120110808 Paul Pipeline Incident Feb 3 2017

Crystal,

Sorry. The plan is to remove and replace impacted soil. It has not happened yet. We have stopped the leak, and replaced the section of pipe that was leaking.

We will wait for you to approve a work plan before we touch the soil.

Hopefully this is more clear.

Thanks,

#### **Catherine Green**

Regulatory Analyst <u>575-627-2453</u> –office <u>720-220-7482</u> - mobile <u>972-629-2153</u> –direct fax

On Feb 8, 2017, at 1:48 PM, Weaver, Crystal, EMNRD < <a href="mailto:Crystal.Weaver@state.nm.us">Crystal.Weaver@state.nm.us</a> wrote:

Hello Catherine,

I have looked over your initial C-141 and noticed something I needed to clarify that was mentioned in the section titled "Describe Area Affected and Cleanup Action Taken" (I attached your initial C-141 with my markings on it for your reference). In that section you mentioned that your organization had found the leak in the pipeline and dug out what was presumed to be the impacted soil material and then replaced it with clean soil material. If that is misunderstood then I apologize in advance. However, unless a full delineation and sampling was already done, I must now after the fact, still request it be done. We are getting very specific directives from our superiors to move forward with things to be done in the order requested within the Conditions of Approval (COA's). Immediate response actions are not to be discouraged, but delineation is still required along with verification sampling.

Thank you very kindly madam,

## **Crystal Weaver**

Environmental Specialist
OCD – Artesia District II
811 S. 1<sup>st</sup> Street
Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963 Fax: 575-748-9720

From: Catherine Green [mailto:CGreen@matadorresources.com]

Sent: Monday, February 6, 2017 1:38 PM

To: Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>

Subject: C-14120110808 Paul Pipeline Incident Feb 3 2017

Crystal or Mike,

Please find attached the C-141 for the Paul incident that occurred Friday, Feb. 3, 2017. I left Crystal a message concerning the issue. We will file a work plan.

Kind Regards,

Catherine Green Regulatory Analyst 575-627-2453-Office 720-220-7482-Mobile

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<Matador Paul 25 Initial C-141 comments.pdf>

## Weaver, Crystal, EMNRD

From:

Weaver, Crystal, EMNRD

Sent:

Monday, February 6, 2017 3:30 PM

To:

Catherine Green; Bratcher, Mike, EMNRD

**Subject:** 

RE: C-14120110808 Paul Pipeline Incident Feb 3 2017

Hello Madam,

Thank you Miss Catherine. I have been hopping and bopping around for the last few weeks, but I do want you to know that yes ma'am I got your voice message. Thank you for keeping us current on this one. I will get it back to you with the COA's along with it ASAP.

Sincerely,

## **Crystal Weaver**

Environmental Specialist OCD – Artesia District II 811 S. 1<sup>st</sup> Street Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963 Fax: 575-748-9720

From: Catherine Green [mailto:CGreen@matadorresources.com]

**Sent:** Monday, February 6, 2017 1:38 PM

To: Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us>; Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>

Subject: C-14120110808 Paul Pipeline Incident Feb 3 2017

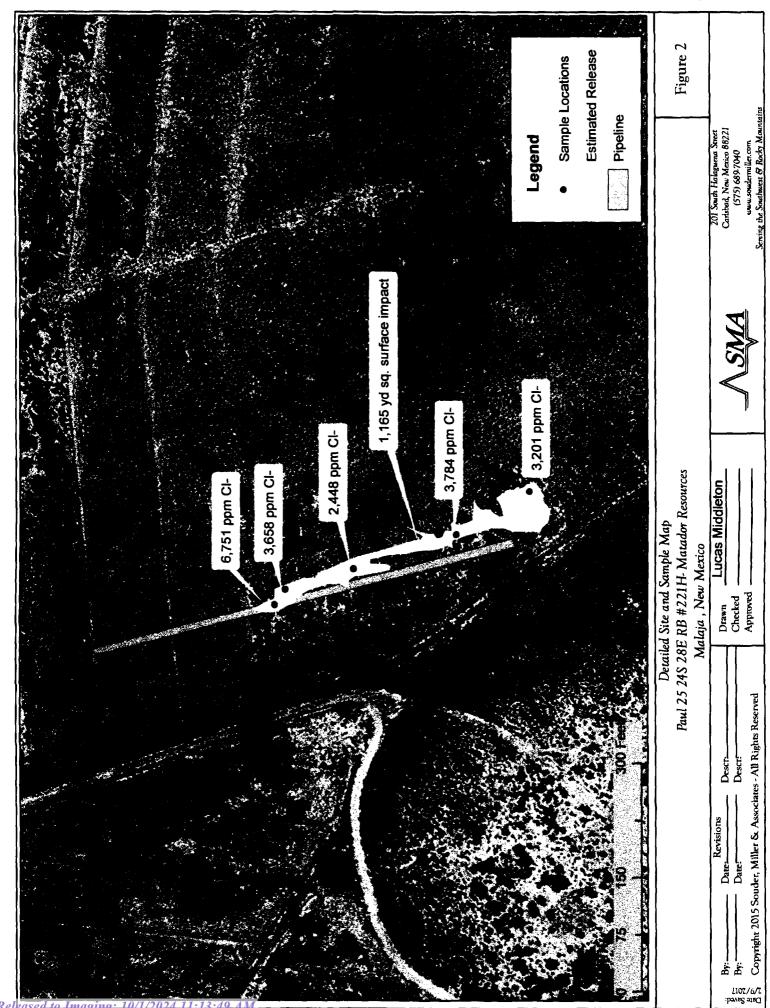
Crystal or Mike,

Please find attached the C-141 for the Paul incident that occurred Friday, Feb. 3, 2017. I left Crystal a message concerning the issue. We will file a work plan.

Kind Regards,

Catherine Green Regulatory Analyst 575-627-2453-Office 720-220-7482-Mobile

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From: Lucas Middleton
To: Weaver, Crystal, EMNRD
Subject: New Paul Release

Date: Thursday, February 9, 2017 12:11:23 PM

Attachments: image001.png

PAUL2 Figure 2.pdf

#### Hello,

I have attached the sample map for the new Matador Paul Release. Is there an RP assigned to this yet?

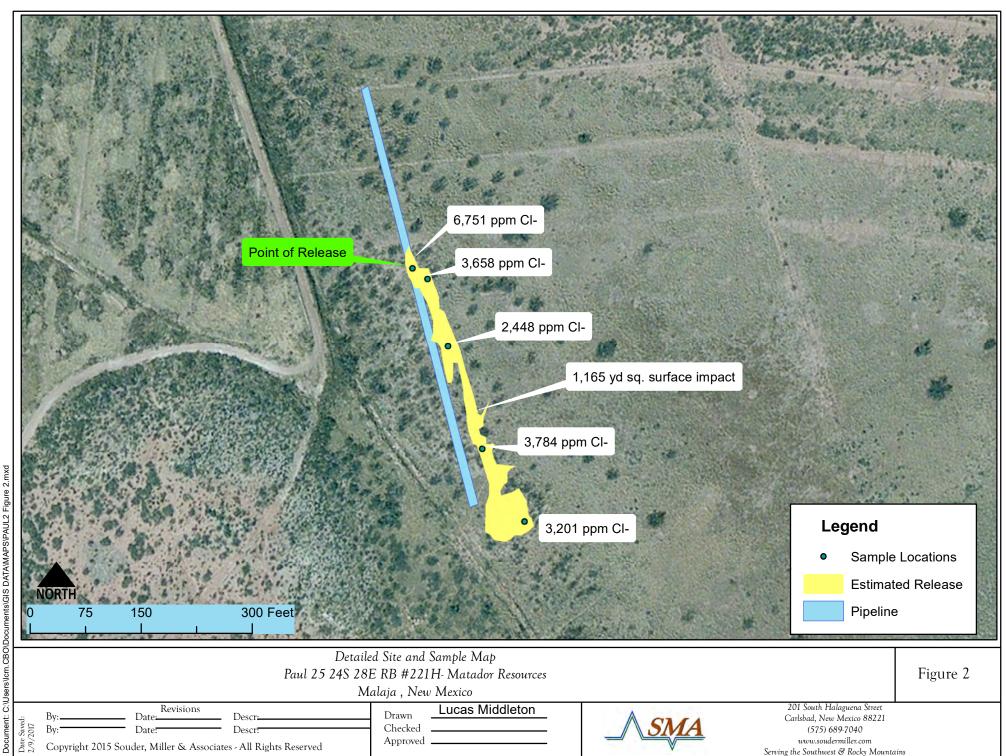
Lucas Middleton Staff Scientist (575) 689-5351 (mobile)



Souder, Miller & Associates
Engineering Environmental Surveying
201 S. Halagueno
Carlsbad, NM 88220
www.soudermiller.com

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## Received by OCD: 9/18/2024 9:56:21 AM

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NM OIL CONSERVATIONS 521 of 874 ARTESIA DISTRICT Form C-141
Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| Re  | lease         | Notificati | ion and | Corrective | Action |
|-----|---------------|------------|---------|------------|--------|
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| DARI                                                                 | 7043                                                       | 118889                                      | MUI                                                 | asc Monne                                                                                                                                                        |                            | OPERAT                                           |                                                               | ction<br>x                          | ☐ Initi:                                | al Report                                           | ☐ Final Report                                      |  |
|----------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------|---------------------------------------------------------------|-------------------------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--|
| Name of Co                                                           | mpany Ma                                                   | atador Resou                                | npany 22543                                         | +                                                                                                                                                                |                            | herine Green                                     |                                                               |                                     | <b>F</b>                                |                                                     |                                                     |  |
| Address 500                                                          | N Main S                                                   | St Ste One R                                | M 88201                                             |                                                                                                                                                                  | Telephone No.575-623-6601  |                                                  |                                                               |                                     |                                         |                                                     |                                                     |  |
| Facility Nan                                                         | ne Paul 25                                                 | 24S 28E RI                                  |                                                     |                                                                                                                                                                  | Facility Type Oil          |                                                  |                                                               |                                     |                                         |                                                     |                                                     |  |
| Surface Own                                                          | ner Fee                                                    |                                             |                                                     | Mineral O                                                                                                                                                        | wner                       | Fee                                              |                                                               |                                     | API No                                  | .30-015-4301                                        | 18                                                  |  |
| Surface 5 W                                                          |                                                            |                                             |                                                     | <b>'</b>                                                                                                                                                         |                            |                                                  |                                                               |                                     | 111111                                  |                                                     |                                                     |  |
|                                                                      |                                                            |                                             | I                                                   |                                                                                                                                                                  |                            | N OF RE                                          | 1                                                             |                                     |                                         |                                                     |                                                     |  |
| Unit Letter<br>D                                                     | Section<br>25                                              | Township 24S                                | Range<br>28E                                        | Feet from the 359                                                                                                                                                | North<br>N                 | n/South Line                                     | Feet from the 217                                             | East/V<br>W                         | est Line                                | County<br>Eddy                                      |                                                     |  |
| D                                                                    | 23                                                         | 270                                         | 201                                                 | 337                                                                                                                                                              | 11                         |                                                  | 217                                                           | <b>"</b>                            |                                         | Ludy                                                |                                                     |  |
| Latitude_32.194817Longitude-104.0487226                              |                                                            |                                             |                                                     |                                                                                                                                                                  |                            |                                                  |                                                               |                                     |                                         |                                                     |                                                     |  |
|                                                                      |                                                            |                                             |                                                     | NAT                                                                                                                                                              | URE                        | OF REL                                           | EASE                                                          |                                     |                                         |                                                     |                                                     |  |
| Type of Relea                                                        |                                                            |                                             |                                                     |                                                                                                                                                                  |                            | _                                                | Release ~100BB                                                |                                     |                                         | Recovered 80B                                       |                                                     |  |
| Source of Rel                                                        | lease pipeli                                               | ne                                          |                                                     |                                                                                                                                                                  |                            | Date and F 3, 2017 7a                            | Iour of Occurrenc                                             | e Feb                               | Date and 7:30am                         | Hour of Disco                                       | very Feb 3, 2017                                    |  |
| Was Immedia                                                          | ate Notice (                                               | Given?                                      |                                                     |                                                                                                                                                                  |                            | If YES, To                                       |                                                               |                                     |                                         |                                                     |                                                     |  |
| Required                                                             |                                                            | x                                           | Yes [                                               | ☐ No ☐ Not                                                                                                                                                       |                            | Crystal We                                       | eaver, voicemail                                              |                                     |                                         |                                                     |                                                     |  |
|                                                                      | othorino C                                                 | ****                                        |                                                     |                                                                                                                                                                  |                            | Doto and I                                       | Jour Feb. 2 2017 1                                            | 12,070                              |                                         |                                                     |                                                     |  |
| By Whom? C<br>Was a Water                                            |                                                            |                                             | ·····                                               |                                                                                                                                                                  |                            |                                                  | Iour Feb. 3 2017 I                                            |                                     |                                         | ****                                                |                                                     |  |
| vvus u vvutore                                                       | ourse reac                                                 |                                             | Yes x                                               | ☐ No                                                                                                                                                             |                            | 11 125, 11                                       | rume impueting t                                              | 110 17 410                          | 100 1100                                |                                                     |                                                     |  |
| If a Watercou                                                        | rse was Im                                                 | pacted, Descr                               | ibe Fully.                                          | k                                                                                                                                                                |                            | <u> </u>                                         |                                                               |                                     |                                         |                                                     |                                                     |  |
|                                                                      |                                                            |                                             |                                                     |                                                                                                                                                                  |                            |                                                  |                                                               |                                     |                                         |                                                     |                                                     |  |
| Down Valve<br>Well shut in t                                         | ng facility<br>had failed to<br>isolate lii                | at Tiger was on close. Leas ne, vacuum tru  | on Emerge<br>e operator<br>uck called               | n Taken.* ncy Shut Down. L drove right of wa Excavator dug de d 80 barrels of pre                                                                                | to Ti<br>wn at             | ger and found<br>spill sight, lo                 | produced water o<br>cated pipe with ho                        | n groun<br>le it in.                | d at (~32°1<br>Crew repl                | 11'52", 104°2':                                     | 55".179999).                                        |  |
|                                                                      |                                                            | and Cleanup A                               |                                                     | ren.* pacted Romove a Per C                                                                                                                                      | nd rop<br>by<br>bel        | loce impacted<br>evsation<br>ch revis            | with opera                                                    | tor t                               | his &                                   | ntenu                                               |                                                     |  |
| regulations al<br>public health<br>should their or<br>or the environ | Il operators<br>or the envi<br>operations h<br>nment. In a | are required to ronment. The nave failed to | o report as<br>acceptand<br>adequately<br>OCD accep | e is true and complete is true and complete of a C-141 report investigate and restance of a C-141 report investigate and restance of a C-141 report investigate. | lease<br>rt by tl<br>media | notifications a<br>he NMOCD mate contaminat      | nd perform correct<br>tarked as "Final Rition that pose a thr | ctive acti<br>eport" d<br>eat to gr | ons for rel<br>oes not rel<br>ound wate | eases which m<br>ieve the operat<br>r, surface wate | ay endanger<br>for of liability<br>or, human health |  |
|                                                                      |                                                            | <u> </u>                                    |                                                     |                                                                                                                                                                  |                            |                                                  | OIL CON                                                       | <u>SERV</u>                         | ATION                                   | DIVISION                                            | 1                                                   |  |
| Signature: 💪                                                         | atherine G                                                 | reen                                        |                                                     |                                                                                                                                                                  |                            |                                                  |                                                               |                                     | <u>^</u>                                | An O                                                | 11 200                                              |  |
| Printed Name                                                         | e: Catherine                                               | e Green                                     |                                                     |                                                                                                                                                                  |                            | Approved by                                      | Environmental S                                               | pecialis                            | W                                       | our                                                 |                                                     |  |
| Title: Regula                                                        | tory Analys                                                | st                                          |                                                     |                                                                                                                                                                  |                            | Approval Da                                      |                                                               |                                     | Expiration                              |                                                     | <u> </u>                                            |  |
| E-mail Addre                                                         | ess:cgreen@                                                | matadorreso                                 | urces.com                                           |                                                                                                                                                                  |                            | Conditions o                                     | f Approval:                                                   | 1                                   | مما                                     | Attached                                            |                                                     |  |
| Date: Feb 6,                                                         | 2017                                                       | Pho                                         | one:575-6                                           | 27-2453                                                                                                                                                          |                            | Conditions of Approval:  COA'S affached Attached |                                                               |                                     |                                         |                                                     |                                                     |  |
|                                                                      |                                                            | ets If Necess                               | ·····                                               |                                                                                                                                                                  |                            |                                                  |                                                               |                                     |                                         |                                                     | 200 1111                                            |  |

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico **NM** OIL CONSERVATION Energy Minerals and Natural Resources ARTESIA DISTRICT

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. FEB Submit 1 Coppy to appropriate District Office in accordance with 19.15.29 NMAC.

| 1220 S. St. Fran                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | cls Dr., Sant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | a Fe, NM 87505 |               | Sa                      | anta Fe     | , NM 875                 | 05                                 | RECE        | WED             |                 |                 |  |
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| Name of Co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | mpany M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | atador Resou   | rces Cor      | npany                   |             | Contact Catherine Green  |                                    |             |                 |                 |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | St Ste One R   |               |                         |             | No.575-623-660           | )1                                 | -           |                 |                 |                 |  |
| Facility Name Paul 25 24S 28E RB #221H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |               |                         |             | Facility Typ             | e Oil                              |             |                 | 7               |                 |  |
| Surface Owner Fee Mineral Owner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |               |                         |             | ee                       |                                    |             | API No          | .30-015-43018   | }               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                | $\overline{}$ | •                       |             |                          |                                    |             |                 |                 |                 |  |
| Unit Letter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Section                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Township       | Range         | Feet from the           |             | OF REI                   | Feet from the                      | Engly       | Vest Line       | County          |                 |  |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 24S            | 28E           | 339                     | N           | South Line               | 217                                | Z Z         | vest Line       | Eddy            |                 |  |
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| Type of Rele                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |               |                         |             |                          | Release ~100BE                     |             |                 | Recovered 80BB  |                 |  |
| Source of Re                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | lease pipeli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ne             |               |                         |             | Date and H<br>3, 2017 7a | low of Occurrent                   | æ Feb       | Date and 7:30am | Hour of Discove | ery Feb 3, 2017 |  |
| Was Immedia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ate Notice (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Given?         |               |                         |             | NYES, 70                 | Whom?                              |             | 7.504111        |                 |                 |  |
| n                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | х[             | ] Yes [       | ☐ No ☐ Not              |             | Crystal We               | eaver, voicemail                   |             |                 |                 |                 |  |
| Required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |               |                         |             |                          |                                    |             |                 |                 |                 |  |
| By Whom? C<br>Was a Water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |               |                         |             |                          | Jour Feb. 3 2017<br>Nume Impacting |             |                 |                 |                 |  |
| was a water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | course read                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                | Yes x         | □ No                    |             | ) II 1123, VC            | nume impacting                     | the wate    | Acourse.        |                 |                 |  |
| If a Watercou                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ırse was Im                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | pacted, Descr  | ibe Fully.    | *                       | _/          |                          | $\overline{}$                      | <del></del> |                 |                 |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ·p             |               |                         |             |                          |                                    |             |                 |                 |                 |  |
| Water recycl<br>Down Valve<br>Well shut in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Describe Cause of Problem and Remedial Action Taken.*  Water recycling facility at Tiger was on Emergency Shut Down. Lease operator went to Paul location that sends water to Tiger. Found that separator Shut Down Valve had failed to close. Lease operator drove right of way to Tiger and found produced water on ground at (~32°11'52", 104°2'55".179999).  Well shut in to isolate line, vacuum truck called. Excavator dug down at spill sight, located pipe with hole it in. Crew replaced section of pipe. Excavated area currently fenced off. Vacuum truck removed 80 barrels of produced water. Replaced Shut Down Valve on separator. |                |               |                         |             |                          |                                    |             |                 | 5".179999).     |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | and Cleanup    |               | ken.*<br>pacted. Remove | and ranta   | ae impeated              | eoil                               |             |                 |                 |                 |  |
| Approximate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <i>a</i> y 1,100 sq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | uaic yaius oi  | surrace in    | ipicica. Remove         | and repra   | ice impacted             | SOII.                              |             | \               |                 |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                | /             |                         |             |                          |                                    |             |                 |                 |                 |  |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to acceptance and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  OIL CONSERVATION DIVISION |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |               |                         |             |                          |                                    |             |                 |                 |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | /              |               |                         |             |                          | OIL CON                            | OEK V       | ATION           | DIVISION        |                 |  |
| Signature: C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |               |                         |             | Approved by              | Environmental S                    | Specialis   | u (Î) A         | AD 11           | Je 10           |  |
| Printed Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |               |                         |             | Approval Da              | te:                                |             | Expiration      | Date:           |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7              |               |                         |             |                          |                                    |             |                 |                 |                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | matadorreso    |               |                         |             | Conditions of            | f Approval:                        | ed.         | +               | Attached 2      | <b>1</b>        |  |
| Date: Feb 6,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ets If Necess  | one:575-6     | 21-2453                 |             | MAY 2                    | L                                  | . 100       | arilla          |                 |                 |  |
| eleased to In                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                | •             | l <b>M</b>              | 0<br>k      | vetive                   | attach<br>ution is<br>impac        | t ca        | n be            | L Assesse       | d               |  |

#### Operator/Responsible Party,

The OCD has received the form C-141 you provided on **2/6/17** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number has been assigned. **Please refer to this case number in all future correspondence.** 

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 3/21/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

#### Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

## Weaver, Crystal, EMNRD

From:

Catherine Green < CGreen@matadorresources.com>

Sent:

Wednesday, February 8, 2017 2:17 PM

To:

Weaver, Crystal, EMNRD

**Subject:** 

Re: C-14120110808 Paul Pipeline Incident Feb 3 2017

Crystal,

Sorry. The plan is to remove and replace impacted soil. It has not happened yet. We have stopped the leak, and replaced the section of pipe that was leaking.

We will wait for you to approve a work plan before we touch the soil.

Hopefully this is more clear.

Thanks,

#### **Catherine Green**

Regulatory Analyst <u>575-627-2453</u> –office <u>720-220-7482</u> - mobile <u>972-629-2153</u> –direct fax

On Feb 8, 2017, at 1:48 PM, Weaver, Crystal, EMNRD < Crystal.Weaver@state.nm.us > wrote:

Hello Catherine,

I have looked over your initial C-141 and noticed something I needed to clarify that was mentioned in the section titled "Describe Area Affected and Cleanup Action Taken" (I attached your initial C-141 with my markings on it for your reference). In that section you mentioned that your organization had found the leak in the pipeline and dug out what was presumed to be the impacted soil material and then replaced it with clean soil material. If that is misunderstood then I apologize in advance. However, unless a full delineation and sampling was already done, I must now after the fact, still request it be done. We are getting very specific directives from our superiors to move forward with things to be done in the order requested within the Conditions of Approval (COA's). Immediate response actions are not to be discouraged, but delineation is still required along with verification sampling.

Thank you very kindly madam,

## **Crystal Weaver**

Environmental Specialist
OCD – Artesia District II
811 S. 1<sup>st</sup> Street
Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963 Fax: 575-748-9720

From: Catherine Green [mailto:CGreen@matadorresources.com]

Sent: Monday, February 6, 2017 1:38 PM

To: Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us >; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>

Subject: C-14120110808 Paul Pipeline Incident Feb 3 2017

Crystal or Mike,

Please find attached the C-141 for the Paul incident that occurred Friday, Feb. 3, 2017. I left Crystal a message concerning the issue. We will file a work plan.

Kind Regards,

Catherine Green Regulatory Analyst 575-627-2453-Office 720-220-7482-Mobile

This transmission is strictly confidential. If you are not the intended recipient of this message, you may not disclose, print, copy or disseminate this information. If you have received this in error, please reply and notify the sender (only) and delete the message. Unauthorized interception of this e-mail is a violation of federal criminal law. This communication does not reflect an intention by the sender or the sender's client or principal to conduct a transaction or make any agreement by electronic means. Nothing contained in this message or in any attachment shall satisfy the requirements for a writing, and nothing contained herein shall constitute a contract or electronic signature under the Electronic Signatures in Global and National Commerce Act, any version of the Uniform Electronic Transactions Act or any other statute governing electronic transactions.

<Matador Paul 25 Initial C-141 comments.pdf>

## Weaver, Crystal, EMNRD

From:

Weaver, Crystal, EMNRD

Sent:

Monday, February 6, 2017 3:30 PM

To:

Catherine Green; Bratcher, Mike, EMNRD

Subject:

RE: C-14120110808 Paul Pipeline Incident Feb 3 2017

Hello Madam,

Thank you Miss Catherine. I have been hopping and bopping around for the last few weeks, but I do want you to know that yes ma'am I got your voice message. Thank you for keeping us current on this one. I will get it back to you with the COA's along with it ASAP.

Sincerely,

## **Crystal Weaver**

Environmental Specialist OCD – Artesia District II 811 S. 1st Street Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963 Fax: 575-748-9720

From: Catherine Green [mailto:CGreen@matadorresources.com]

Sent: Monday, February 6, 2017 1:38 PM

To: Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us>; Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>

Subject: C-14120110808 Paul Pipeline Incident Feb 3 2017

Crystal or Mike,

Please find attached the C-141 for the Paul incident that occurred Friday, Feb. 3, 2017. I left Crystal a message concerning the issue. We will file a work plan.

Kind Regards,

Catherine Green Regulatory Analyst 575-627-2453-Office 720-220-7482-Mobile

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From: Weaver, Crystal, EMNRD

To: <u>Catherine Green; Bratcher, Mike, EMNRD</u>

Cc: <u>Lucas Middleton</u>

Subject: RE: C-14120110808 Paul Pipeline Incident Feb 3 2017

Date:Wednesday, February 22, 2017 2:21:00 PMAttachments:3. 4113 - COAs & signed C-141 intial.pdf

RE: Matador Resources Co. \* Paul 25 24S 28E RB #221H \* 30-015-43018 \* DOR – 2/3/17 \* 2RP-4113

Catherine,

I have included a scanned copy of the signed Initial C-141 Remediation Permit along with an attached Conditions of Approval. The OCD tracking number for this event is 2RP-4113.

Thank you,

## **Crystal Weaver**

Environmental Specialist OCD – Artesia District II 811 S. 1<sup>st</sup> Street

Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963 Fax: 575-748-9720

**From:** Catherine Green [mailto:CGreen@matadorresources.com]

Sent: Monday, February 6, 2017 1:38 PM

To: Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>

Subject: C-14120110808 Paul Pipeline Incident Feb 3 2017

Crystal or Mike,

Please find attached the C-141 for the Paul incident that occurred Friday, Feb. 3, 2017. I left Crystal a message concerning the issue. We will file a work plan.

Kind Regards,

Catherine Green Regulatory Analyst 575-627-2453-Office 720-220-7482-Mobile

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From: Catherine Green
To: Weaver, Crystal, EMNRD
Cc: Lucas Middleton

Subject: Paul Incident Feb 3 2RP-4113

Date: Monday, March 20, 2017 3:51:48 PM

Attachments: WORK PLAN FOR INCIDENT 2RP-4113, PAUL 25 24S 28E RB 221H, v2.pdf

#### Crystal,

Please find attached the Work Plan for the Paul Pipeline Incident that occurred on Feb 3, 2017 (pipeline incident #2). We look forward to clearing this incident. Thank you for your patience as the work plan was being prepared.

Kind Regards,

Catherine Green Regulatory Analyst 575-627-2453-Office 720-220-7482-Mobile

This transmission is strictly confidential. If you are not the intended recipient of this message, you may not disclose, print, copy or disseminate this information. If you have received this in error, please reply and notify the sender (only) and delete the message. Unauthorized interception of this e-mail is a violation of federal criminal law. This communication does not reflect an intention by the sender or the sender's client or principal to conduct a transaction or make any agreement by electronic means. Nothing contained in this message or in any attachment shall satisfy the requirements for a writing, and nothing contained herein shall constitute a contract or electronic signature under the Electronic Signatures in Global and National Commerce Act, any version of the Uniform Electronic Transactions Act or any other statute governing electronic transactions.



March 6, 2017

#5E25774-BG7

NMOCD District II Crystal Weaver 811 S. First St. Artesia, NM 88210

SUBJECT: WORK PLAN FOR INCIDENT 2RP-4113, PAUL 25 24S 28E RB #221H, UNIT I SECTION 25-T24S-R28E NMPM, API# 30-015-43018, EDDY COUNTY, NEW MEXICO

#### Dear Crystal Weaver:

On behalf of Matador Production Company, Souder Miller & Associates is pleased to submit a work plan summarizing the planned soil remediation for the release site located at the Paul 25 24S 28E RB #221H in Eddy County, New Mexico. The purpose of the work plan is to obtain approval from the New Mexico Oil Conservation Division (NMOCD) for the remediation of the release that occurred on fee lands on February 3, 2017.

Souder, Miller & Associates (SMA) responded at the request of Matador, to assess and delineate the release of production water associated with the Paul 25 24S 28E RB #221H well location. The release was initially reported to NMOCD by Matador Production Company, on February 6, 2017 and was a result of Water recycling facility at Tiger was on Emergency Shut Down. Lease operator went to Paul location that sends water to Tiger. Found that separator Shut Down Valve had failed to close. The table below summarizes information regarding the release. Results of the assessment, delineation are described in the following report.

| Table 1: Release information and Site Ranking |                            |                  |                   |               |                       |  |  |  |  |  |
|-----------------------------------------------|----------------------------|------------------|-------------------|---------------|-----------------------|--|--|--|--|--|
| Name                                          | Paul 25 24S 28E RB #221H   |                  |                   |               |                       |  |  |  |  |  |
| Company                                       | Matador Production Company |                  |                   |               |                       |  |  |  |  |  |
|                                               | Incident<br>Number         | API<br>Number    | Section           | , Range       |                       |  |  |  |  |  |
| Location                                      | 2RP-<br>4113               | 30-015-<br>43018 | NW/NW<br>(Unit D) | Section<br>25 | T24S,<br>R28E<br>NMPM |  |  |  |  |  |
| Estimated Date of Release                     | February                   | 3, 2017          |                   |               |                       |  |  |  |  |  |
| Date Reported to NMOCD                        | February                   | 6, 2017          |                   |               |                       |  |  |  |  |  |
| Reported by                                   | Catherine Green            |                  |                   |               |                       |  |  |  |  |  |
| Land Owner                                    | Fee                        |                  |                   |               |                       |  |  |  |  |  |
| Reported To                                   | NM Oil Co                  | onservation      | n Division (N     | NMOCD)        |                       |  |  |  |  |  |
| Source of Release                             | Pipeline                   |                  |                   |               |                       |  |  |  |  |  |



| Released Volume                                                | Estimated 100 bbls                                     |
|----------------------------------------------------------------|--------------------------------------------------------|
| Recovered Volume                                               | 80 bbls                                                |
| Nearest Waterway                                               | Nearest surface water is 1.3 miles east of Willow Lake |
| Depth to Groundwater                                           | Approximately 49' bgs                                  |
| Nearest Domestic Water<br>Source                               | Nearest well is 0.39 miles south of the location       |
| NMOCD Ranking                                                  | 20                                                     |
| SMA Response Dates                                             | February 20, 2017                                      |
| Subcontractors                                                 | TBD                                                    |
| Disposal Facility                                              | Lea Land                                               |
| Estimated Cubic Yards Contaminated Soil Excavated and Disposed | 500                                                    |

Attached is a copy of the C-141 initial located in Appendix B. For questions or comments pertaining to the release or the attached work plan please feel free to contact either of us.

Submitted by:

SOUDER, MILLER & ASSOCIATES

Austin Weyant Project Scientist Reviewed by:

Cynthia Gray, CHMM Senior Scientist

# SOIL REMEDIATION WORK PLAN FOR INCIDENT 2RP-4113

MATADOR PRODUCTION COMPANY

PAUL 25 24S 28E RB #221H UL D, SECTION 25, T24S R28E, NMPM API #30-015-43018 EDDY COUNTY, NM



Prepared for: Matador Production Company PO Box 1933 Roswell, NM 88202 Prepared by: Souder, Miller & Associates 201 S. Halagueno Carlsbad, NM 88221 575-689-704

> March 6, 2017 SMA Reference 5E25774 BG7

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Figure 2: Detailed Site and Sample Map

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Appendix B: Form C141 Initial

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#### 1.0 Introduction

On behalf of Matador Production Company, Souder, Miller & Associates (SMA) has prepared this report that describes the assessment, initial delineation and proposed remediation for a release associated with the Paul 25 24S 28E RB #221H location API# 30-015-43018. The site is located in Section 25, Township 24S, Range 28E NMPM, Eddy County, New Mexico, on fee lands. Figure 1 illustrates the vicinity and location of the site.

#### 2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 1.3 miles east of the Willow Lake, with an elevation of approximately 2,934 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be 49 feet below ground surface (bgs).

SMA searched the New Mexico State Engineer's Office online water well database for water wells in the vicinity of the release. Two wells are located within a one mile radius of the site. Figure 1 depicts the site vicinity and Figure 2 shows the site itself. The physical location of this release is on private property and is within the jurisdiction of NMOCD.

Based on the NMOCD Guidelines Ranking Criteria, this release location has been assigned an NMOCD ranking of 20 which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm combined benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 100 ppm total petroleum hydrocarbons (TPH). Table 1 illustrates the site ranking rationale.

#### 3.0 Assessment and Initial Results

On February 20, 2017 after receiving 811 clearance, SMA field personnel assessed the remediated release area onsite with a gas powered auger, Photo Ionization Detector (PID), and a mobile chlorides titration kit EPA method 9045D meter. The proposed remediated release area was found to be approximately 420 feet long and 20 feet wide. The site delineation samples were taken to depths of 12 feet bgs. Specific sample locations for all samples are depicted on Figure 2 (Sample Location Map) along with sampling details within Table 3. All samples were collected and processed according to NMOCD soil sampling procedures. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for total Chlorides using EPA Method 300.0.

## 4.0 Soil Remediation Work Plan

SMA will begin the excavation of affected soils, with approval from area utilities owners via 811 and NMOCD. SMA will continuously guide the excavation activities by collecting composite soil samples for field screening with a mobile titration unit (EPA 4500) and a calibrated PID. Excavation will occur to depths of two feet bgs to sufficiently remove the impacted materials to NMOCD requirements. Background chlorides for this area was previous sampled for incident 2RP-4008 and was found to be 3,000 ppm. All soil with a chloride level above the background sample will be removed. Affected soils will be removed from the area before closure samples are collected at the final depth of excavation and from the sidewalls. In the pipeline area the excavation will not occur four feet on each side of the pipeline due to pipeline safety. Excavation will occurred to two feet bgs over the pipeline. Hay then was added over pipeline to as a capillary break in the soil. Approximately 500 cubic yards of contaminated soil are projected to be removed and replaced with clean backfill material to return the surface to previous contours. The

contaminated soil will be transported for proper disposal at Lea Land, near Carlsbad, NM, an NMOCD permitted disposal facility.

## 5.0 Conclusions and Recommendations

NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern with a site ranking of 20: 10 ppm (mg/kg) Benzene, 50 ppm total BTEX, and 100 ppm TPH

After the soil remediation work plan is approved by NMOCD, SMA will begin soil remediation activities on site.

Soil contaminant concentrations found during the initial delineation are illustrated in Figure 2. A summary of the laboratory analyses is included in Table 2. Laboratory reports are included in Appendix A.

Photo documentation is available by request.

## 6.0 Closure and Limitations

The scope of our services consisted of the performance of confirmatory spill and spill mitigation assessment sampling, verification of release stabilization, regulatory liaison, and preparation of this work plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-7040 or Cindy Gray at 505-325-7535.

Submitted by:

Reviewed by:

SOUDER. MILLER & ASSOCIATES

Austin Weyant Project Scientist

Cynthia Gray, CHMM Senior Scientist

## Figures:

Figure 1: Vicinity Map

Figure 2: Detailed Site and Sample Map

## Tables:

Table 1: Release Information and Site Ranking

Table 2: Summary of Chloride Field Screening Results

Table 3: Summary of Laboratory Analyses

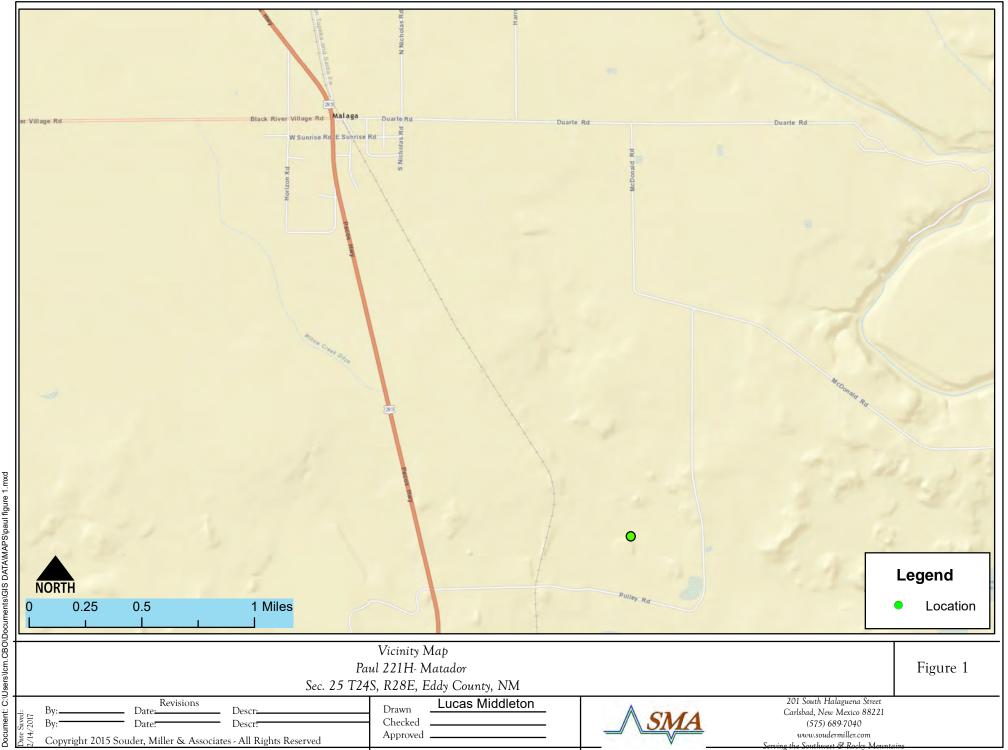
## Appendices:

Appendix A: Laboratory Analytical Reports

Appendix B: Form C141 Initial

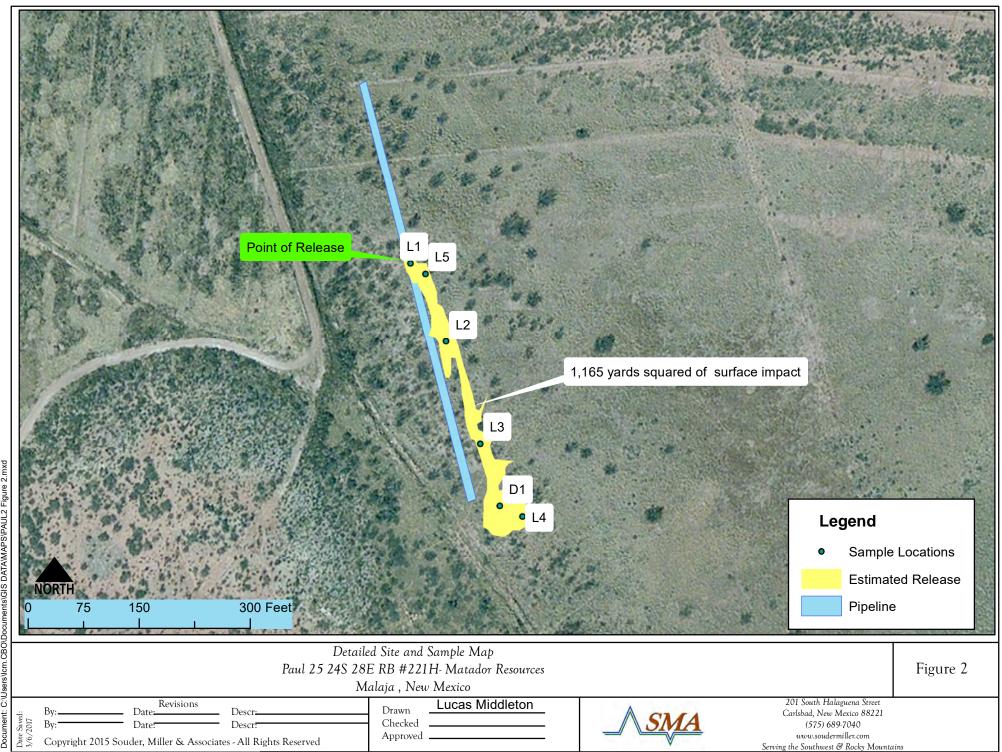
Appendix C: NMOSE Water Column

# FIGURE 1 VICINITY MAP



Paul 25 24S 28E RB #221H Work Plan SMA Ref #5E25774-BG7 3/6/2017

# FIGURE 2 DETAILED SITE AND SAMPLE MAP



Released to Imaging: 10/1/2024 11:13:49 AM

Paul 25 24S 28E RB #221H Work Plan SMA Ref #5E25774-BG7 3/6/2017

# TABLE 1 RELEASE INFORMATION AND SITE RANKING

| Table 1: Release information and Site Ranking                        |                                      |                            |                   |               |                       |  |
|----------------------------------------------------------------------|--------------------------------------|----------------------------|-------------------|---------------|-----------------------|--|
| Name                                                                 | Paul 25 24S 28E RB #221H             |                            |                   |               |                       |  |
| Company                                                              |                                      | Matador Production Company |                   |               |                       |  |
|                                                                      | Incident<br>Number                   | , Township                 | hip, Range        |               |                       |  |
| Location                                                             | 2RP-4113                             | 30-015-<br>43018           | NW/NW<br>(Unit D) | Section<br>25 | T24S,<br>R28E<br>NMPM |  |
| Estimated Date of Release                                            | February 3                           | , 2017                     |                   |               |                       |  |
| Date Reported to NMOCD                                               | February 6                           | , 2017                     |                   |               |                       |  |
| Reported by                                                          | Catherine (                          | Green                      |                   |               |                       |  |
| Land Owner                                                           | Private                              |                            |                   |               |                       |  |
| Reported To                                                          | NM Oil Conservation Division (NMOCD) |                            |                   |               |                       |  |
| Source of Release                                                    | Pipeline                             |                            |                   |               |                       |  |
| Released Material                                                    | Produced v                           | water                      |                   |               |                       |  |
| Released Volume                                                      | Estimated                            | 100 bbls                   |                   |               |                       |  |
| Recovered Volume                                                     | 80 bbls                              |                            |                   |               |                       |  |
| Nearest Waterway                                                     | Nearest su                           | rface water                | is 1.3 mile:      | s east of Wi  | illow Lake            |  |
| Depth to Groundwater                                                 | Approxima                            | itely 49' bgs              | 5                 |               |                       |  |
| Nearest Domestic Water Source                                        | Nearest we                           | ell is 0.39 m              | iles south c      | of the locati | on                    |  |
| NMOCD Ranking                                                        | 20                                   |                            |                   |               |                       |  |
| SMA Response Dates                                                   | February 2                           | 0, 2017                    |                   |               |                       |  |
| Subcontractors                                                       | TBD                                  |                            |                   |               |                       |  |
| Disposal Facility                                                    | Lea Lad                              |                            |                   |               |                       |  |
| Estimated Cubic Yards<br>Contaminated Soil Excavated<br>and Disposed | 500                                  |                            |                   |               |                       |  |

Paul 25 24S 28E RB #221H Work Plan SMA Ref #5E25774-BG7 3/6/2017

## TABLE 2 SUMMARY OF CHLORIDE FIELD SCREENING RESULTS

Table 2: Summary of Chloride Field Screening Results

Paul 25 24S 28E RB #221H Sample Event 2/5/17, 2/20/17

| FIELD SCREENING RESULTS SUMMARY |      |                           |                            |                      |                             |  |  |  |  |  |
|---------------------------------|------|---------------------------|----------------------------|----------------------|-----------------------------|--|--|--|--|--|
| Date                            | Time | Field Screening Reference | Sample Depth<br>(Feet BGS) | Chlorides<br>Results | Lab Sample<br>Collected Y/N |  |  |  |  |  |
| 2/5/2017                        | 2:00 | L1                        | Surface                    | 6,025                | N                           |  |  |  |  |  |
| 2/5/2017                        | 2:00 | L2                        | Surface                    | 3,600                | N                           |  |  |  |  |  |
| 2/5/2017                        | 2:00 | L3                        | Surface                    | 3,205                | N                           |  |  |  |  |  |
| 2/5/2017                        | 2:00 | L4                        | Surface                    | 3,650                | N                           |  |  |  |  |  |
| 2/5/2017                        | 2:00 | L5                        | Surface                    | 2,976                | N                           |  |  |  |  |  |
| 2/20/2017                       | 1:00 | D1-2                      | 2'                         | 1,000                | Y                           |  |  |  |  |  |
| 2/20/2017                       | 1:00 | D1-12                     | 12'                        | 1,182                | Υ                           |  |  |  |  |  |



Paul 25 24S 28E RB #221H Work Plan SMA Ref #5E25774-BG7 3/6/2017

### TABLE 3 SUMMARY OF LABORATORY ANALYSES

**Table 3: Summary of Laboratory Analyses** 

| OEjæ†îca®ædyÅ<br>Ü^][¦dEÄ<br>Fï€GOEIÍ | Ùæ{] ^Á<br>Þ`{à^¦Á[}Á<br>Øà*' ^ÁGÁTæ} | Ùæ{ ]  ^ÁÖæz^ | Ö^] @ | ÓVÒÝ | Ó^}:^}^ | ÕÜU<br>{ *₽\$\$* | ÖÜU<br>{ * <del>E</del> S\$* | Ô Ë<br>{ *₽\$* |
|---------------------------------------|---------------------------------------|---------------|-------|------|---------|------------------|------------------------------|----------------|
| 1702A45-<br>001                       | L2-2                                  | 2/20/2017     | 2'    | N/A  | N/A     | N/A              | N/A                          | 1100           |
| 1702A45-<br>002                       | L2-12                                 | 2/20/2017     | 12'   | N/A  | N/A     | N/A              | N/A                          | 1200           |

Paul 25 24S 28E RB #221H Work Plan SMA Ref #5E25774-BG7 3/6/2017

# APPENDIX A LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 02, 2017

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: Paul 2 OrderNo.: 1702A45

### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/23/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Indel

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report** 

Lab Order: **1702A45** 

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/2/2017

CLIENT: Souder, Miller & Associates Lab Order: 1702A45

**Project:** Paul 2

**Lab ID:** 1702A45-001 **Collection Date:** 2/20/2017 1:00:00 PM

Client Sample ID: D1-2 Matrix: SOIL

 Analyses
 Result
 PQL
 Qual
 Units
 DF
 Date Analyzed
 Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 1100
 30
 mg/Kg
 20
 2/28/2017 6:17:00 PM
 30454

**Lab ID:** 1702A45-002 **Collection Date:** 2/20/2017 1:00:00 PM

Client Sample ID: D1-12 Matrix: SOIL

 Analyses
 Result
 PQL
 Qual
 Units
 DF
 Date Analyzed
 Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: LGT

 Chloride
 1200
 75
 mg/Kg
 50
 3/1/2017 10:47:51 PM
 30454

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 2
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### **QC SUMMARY REPORT**

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1702A45** 

02-Mar-17

Client: Souder, Miller & Associates

**Project:** Paul 2

Sample ID MB-30454 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 30454 RunNo: 41047

Prep Date: 2/28/2017 Analysis Date: 2/28/2017 SeqNo: 1286795 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-30454 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 30454 RunNo: 41047

Prep Date: 2/28/2017 Analysis Date: 2/28/2017 SeqNo: 1286796 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.4 90 110

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 2 of 2



Hall Environmental Analysis Laboratory 1901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-39/3 FAX: 505-345-4107 Website: www.hallenvironmental.com

### Hommergue, NM 87105 Sample Log-In Check List

| Client Name: SMA-CARLSBAD Work Order Num                                                  | ber: 1702A45 |                 | ReptNo: 1                         |
|-------------------------------------------------------------------------------------------|--------------|-----------------|-----------------------------------|
| Received by/date. LM 02/23/1                                                              | 7            |                 |                                   |
| Logged By: Andy Janeson 2/23/2017 9:20:00 / Completed By ANDY Janeson 02/23/17            |              | of Malan        |                                   |
| Reviewed By:                                                                              | 117          |                 |                                   |
| Chain of Custody                                                                          | 11.4         |                 |                                   |
| 1 Custody seals intact on sample bottles?                                                 | Yes          | No              | Not Present V                     |
| 2. Is Chain of Gustody complete?                                                          | Yes 🗸        | No              | Not Present                       |
| 3. How was the sample delivered?                                                          | Courier      | 1100            | No. Pleach                        |
| <u>Log In</u>                                                                             |              |                 |                                   |
| 4. Was an attempt made to cool the samples?                                               | Yes 🗸        | No              | NA                                |
| 5. Were all samples received at a temperature of >0° C to 6.0°C                           | Yes V        | No              | NA.                               |
| 6. Samplé(s) in proper container(s)?                                                      | Yes 🗸        | No              |                                   |
| 7 Sufficient sample volume for indicated test(s)?                                         | Yes V        | No              |                                   |
| B. Are samples (except VOA and ONG) properly preserved?                                   | Yes V        | No              |                                   |
| 9. Was preservative added to bottles?                                                     | Yes          | No V            | NA.                               |
| 10.VOA vials have zero headspace?                                                         | Yes          | No.             | No VOA Vials. V                   |
| 11, Were any sample containers received broken?                                           | Yes          | No V            |                                   |
| 12 0                                                                                      |              |                 | # of preserved<br>bottles checked |
| 12 Does paperwork match bottle labels? (Note discrepancies on chain of custody)           | res V        | No              | for pH: (<2 or >12 unless noted)  |
| 13 Are matrices correctly identified on Chain of Custody?                                 | Yes 🗸        | No              | Adjusted?                         |
| 14, Is it clear what analyses were requested?                                             | Yes V        | No              |                                   |
| 15. Were all holding times able to be met?<br>(If no, notify customer for authorization.) | Yes 🗸        | No              | Checked by                        |
| Special Handling (if applicable)                                                          |              |                 |                                   |
| 16. Was client notified of all discrepancies with this order?                             | Yes          | No              | NA 🗸                              |
| Person Notified: Date                                                                     |              |                 |                                   |
| By Whom.                                                                                  | 148.0        | Phone Fax       | In Person                         |
| Regarding                                                                                 |              | Calle La Parent | 11(1) 5.04(1)                     |
| Client Instructions:                                                                      |              |                 |                                   |
| 17. Additional remarks:                                                                   |              |                 |                                   |
| 18. Cooler Information                                                                    |              |                 |                                   |
|                                                                                           |              |                 |                                   |
| Cooler No Temp °C   Condition   Seal Intact   Seal No                                     | Seal Date    | Signed By       |                                   |

Paul 25 24S 28E RB #221H Work Plan SMA Ref #5E25774-BG7 3/3/2017

### APPENDIX B FORM C141 INITIAL

### Received by OCD: 9/18/2024 9:56:21 AM

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

### State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NM OIL CONSERVATIONS 556 of 874 ARTESIA DISTRICT Form C-141
Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| R  | elease | <b>Notification</b> | and C | orrective | Action |
|----|--------|---------------------|-------|-----------|--------|
| 40 | CICUSC | MOUNTAIN            |       | ULLCUIT   | 11000  |

| DARI                                                                 | 7043                                                       | 118889                                      | MUI                                                 | asc Notific                                                                                                    |                            | OPERAT                                      |                                                               | ction<br>x                          | ☐ Initi:                                | al Report                                           | ☐ Final Report                                      |
|----------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------|---------------------------------------------------------------|-------------------------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| Name of Company Matador Resources Company 22013                      |                                                            |                                             |                                                     | +                                                                                                              |                            | herine Green                                |                                                               |                                     | <b>F</b>                                |                                                     |                                                     |
| Address 500                                                          | N Main S                                                   | St Ste One R                                | oswell N                                            | M 88201                                                                                                        |                            | Telephone No.575-623-6601                   |                                                               |                                     |                                         |                                                     |                                                     |
| Facility Nan                                                         | ne Paul 25                                                 | 24S 28E RI                                  | B #221H                                             |                                                                                                                |                            | Facility Type Oil                           |                                                               |                                     |                                         |                                                     |                                                     |
| Surface Own                                                          | ner Fee                                                    | -                                           |                                                     | Mineral O                                                                                                      | wner                       | Fee                                         |                                                               |                                     | API No                                  | .30-015-4301                                        | 18                                                  |
|                                                                      |                                                            |                                             |                                                     |                                                                                                                |                            |                                             |                                                               | 111111                              | 150 015 1501                            |                                                     |                                                     |
|                                                                      |                                                            |                                             | I                                                   |                                                                                                                |                            | N OF RE                                     |                                                               |                                     |                                         |                                                     |                                                     |
| Unit Letter<br>D                                                     | Section<br>25                                              | Township 24S                                | Range<br>28E                                        | Feet from the 359                                                                                              | North<br>N                 | n/South Line                                | Feet from the 217                                             | East/W                              | est Line                                | County<br>Eddy                                      |                                                     |
| D                                                                    | 23                                                         | 270                                         | 201                                                 | 337                                                                                                            | 11                         |                                             | 217                                                           | "                                   |                                         | Ludy                                                |                                                     |
|                                                                      | <b>Latitude</b> _32.194817 <b>Longitude-104.0487226</b>    |                                             |                                                     |                                                                                                                |                            |                                             |                                                               |                                     |                                         |                                                     |                                                     |
|                                                                      |                                                            |                                             |                                                     | NAT                                                                                                            | URE                        | OF REL                                      | EASE                                                          |                                     |                                         |                                                     |                                                     |
| Type of Relea                                                        |                                                            |                                             |                                                     |                                                                                                                |                            | _                                           | Release ~100BB                                                |                                     |                                         | Recovered 80B                                       |                                                     |
| Source of Rel                                                        | lease pipeli                                               | ne                                          |                                                     |                                                                                                                |                            | Date and F 3, 2017 7a                       | Iour of Occurrenc                                             | e Feb                               | Date and 7:30am                         | Hour of Disco                                       | very Feb 3, 2017                                    |
| Was Immedia                                                          | ate Notice (                                               | Given?                                      |                                                     |                                                                                                                |                            | If YES, To                                  |                                                               |                                     |                                         |                                                     |                                                     |
| Required                                                             |                                                            | x                                           | Yes [                                               | ☐ No ☐ Not                                                                                                     |                            | Crystal We                                  | eaver, voicemail                                              |                                     |                                         |                                                     |                                                     |
|                                                                      | othorino C                                                 | ****                                        |                                                     |                                                                                                                |                            | Doto and I                                  | Jour Feb. 2 2017 1                                            | 12,070                              |                                         |                                                     |                                                     |
| By Whom? C<br>Was a Water                                            |                                                            |                                             | ·····                                               |                                                                                                                |                            |                                             | Iour Feb. 3 2017 I                                            |                                     |                                         |                                                     |                                                     |
| vvus u vvutore                                                       | ourse reac                                                 |                                             | Yes x                                               | □ No                                                                                                           |                            | 11 125, 11                                  | rume impueting t                                              | no mate                             | 100 1100                                |                                                     |                                                     |
| If a Watercou                                                        | rse was Im                                                 | pacted, Descr                               | ibe Fully.                                          | *                                                                                                              |                            | <u> </u>                                    |                                                               |                                     |                                         |                                                     |                                                     |
|                                                                      |                                                            |                                             |                                                     |                                                                                                                |                            |                                             |                                                               |                                     |                                         |                                                     |                                                     |
| Down Valve<br>Well shut in t                                         | ng facility<br>had failed to<br>isolate lii                | at Tiger was on close. Leas ne, vacuum tru  | on Emerge<br>e operator<br>uck called               | n Taken.* ncy Shut Down. L drove right of wa Excavator dug ded 80 barrels of pro                               | to Ti<br>wn at             | ger and found<br>spill sight, lo            | produced water o<br>cated pipe with ho                        | n groun<br>le it in.                | d at (~32°1<br>Crew repl                | 11'52", 104°2':                                     | 55".179999).                                        |
|                                                                      |                                                            | and Cleanup A                               |                                                     | ken.*<br>pacted Remove a<br>Per (                                                                              | nd rop<br>by<br>bel        | loce impacted<br>evsation<br>ch revis       | with opera                                                    | tor t                               | his &                                   | ntenu                                               |                                                     |
| regulations al<br>public health<br>should their or<br>or the environ | Il operators<br>or the envi<br>operations h<br>nment. In a | are required to ronment. The nave failed to | o report as<br>acceptand<br>adequately<br>OCD accep | e is true and complete is true and complete certain rece of a C-141 report investigate and rectance of a C-141 | lease<br>rt by tl<br>media | notifications a<br>he NMOCD mate contaminat | nd perform correct<br>tarked as "Final Rition that pose a thr | ctive acti<br>eport" d<br>eat to gr | ons for rel<br>oes not rel<br>ound wate | eases which m<br>ieve the operat<br>r, surface wate | ay endanger<br>for of liability<br>or, human health |
|                                                                      | <del>`</del>                                               |                                             |                                                     |                                                                                                                |                            |                                             | OIL CON                                                       | SERV                                | ATION                                   | DIVISION                                            | 1                                                   |
| Signature: Q                                                         | atherine G                                                 | reen                                        |                                                     |                                                                                                                |                            | A                                           | Environmental S                                               |                                     | <u>^</u>                                | Ato D                                               | 11 200                                              |
| Printed Name                                                         | e: Catherine                                               | e Green                                     |                                                     |                                                                                                                |                            | Approved by                                 | Environmental S                                               | pecialisi                           | M                                       | our                                                 |                                                     |
| Title: Regula                                                        | tory Analys                                                | st                                          |                                                     |                                                                                                                |                            | Approval Da                                 |                                                               |                                     | Expiration                              |                                                     | <u> </u>                                            |
| E-mail Addre                                                         | ess:cgreen@                                                | matadorreso                                 | urces.com                                           |                                                                                                                |                            | Conditions o                                | f Approval:                                                   | 1                                   | heo                                     | Attached                                            |                                                     |
| Date: Feb 6,                                                         | 2017                                                       | Pho                                         | one:575-6                                           | 27-2453                                                                                                        |                            | (`                                          | DHS W                                                         | ctac                                |                                         | \                                                   | •                                                   |
|                                                                      |                                                            | ets If Necess                               | ·····                                               |                                                                                                                |                            |                                             |                                                               |                                     |                                         |                                                     | 200 1111                                            |

Paul 25 24S 28E RB #221H Work Plan SMA Ref #5E25774-BG7 3/3/2017

### APPENDIX C OSE WATER COLUMN DATA



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (

(NAD83 UTM in meters)

(In feet)

| 3 /          | /              |             |           | <b>o</b> , ( |           | ,        | ,              |      |
|--------------|----------------|-------------|-----------|--------------|-----------|----------|----------------|------|
|              | POD            |             |           |              |           |          |                |      |
|              | Sub-           | QQQ         |           |              |           | D        | epth Depth Wa  | ater |
| POD Number   | Code basin Cou | nty 64 16 4 | Sec Tws R | ng X         | Υ         | Distance | Well Water Col | umn  |
| C 03833 POD1 | C E            | 2 1 2       | 26 24S 2  | 8E 589014    | 3562545 🌑 | 660      | 96 55          | 41   |
| C 03358 POD1 | C E            | 0 1 4 1     | 26 24S 2  | 8E 588416    | 3562116 🎒 | 1287     | 135            |      |

Average Depth to Water: 55 feet

Minimum Depth: 55 feet

Maximum Depth: 55 feet

**Record Count: 2** 

**UTMNAD83** Radius Search (in meters):

**Easting (X):** 589664.55 **Northing (Y):** 3562429.4 **Radius:** 1500

From: Lucas Middleton

To: Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD

Subject: Paul Updates

**Date:** Monday, April 24, 2017 9:16:02 AM

Attachments: <u>image003.png</u>

### Good Morning,

May I please get an update on the Matador Paul 25 24S 28E RB #221 (2RP-4113) work plan? We finished up the Paul Pad (2RP- 4051) and are waiting on lab results and will send you the closure when its done.

Lucas Middleton Staff Scientist (575) 689-5351 (mobile)



Souder, Miller & Associates
Engineering Environmental Surveying
201 S. Halagueno
Carlsbad, NM 88220
www.soudermiller.com

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From: Weaver, Crystal, EMNRD

To: <u>Lucas Middleton; Bratcher, Mike, EMNRD</u>
Cc: <u>Austin Weyant; Heather Patterson</u>

Subject: RE: Paul Updates

**Date:** Monday, April 24, 2017 10:42:00 AM

Attachments: <u>image001.png</u>

Hello all,

As I had indicated to Heather, and I believe Lucas as well, over the phone I am having some trouble reading thru the sampling label system and chronology of the closure report for 2RP-4008 (DOR-11/22/16). Also my understanding of why we agreed upon 3000ppm as background for this original site is also something I am currently having some trouble with. I was a very new employee at the time of this release and the process we went about to determine this was not well documented on OCD's end so I am now having trouble remembering exactly how we decided upon this figure. Was sample name D-2 from your second updated work plan sent to OCD on 12/15/16 what you changed to your background sample? Cause I am confused. Mike and I attempted to review all of the documents sent in to us to try and get it ironed out but we just are having a really hard time due to the sampling label system.

Currently, you are continuing to site that same background sample, that I am unclear on and have mentioned above, on your work plan report for an additional release that also happened at the Matador Paul 25 24S 28E RB 221H site on 2/3/17. You have asked for an update on this work plan, however, prior to issuing any further authorizations, I am at the point where I am needing to request an in person audience with you all in order to get the details of this worked out in my head. If you all could please let me know when would be best for you to accommodate this request I would very much appreciate it.

Thank you,

### **Crystal Weaver**

Environmental Specialist OCD – Artesia District II 811 S. 1<sup>st</sup> Street

Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963 Fax: 575-748-9720

**From:** Lucas Middleton [mailto:lucas.middleton@soudermiller.com]

**Sent:** Monday, April 24, 2017 9:16 AM

To: Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>

**Subject:** Paul Updates

Good Morning,

May I please get an update on the Matador Paul 25 24S 28E RB #221 (2RP-4113) work plan? We finished up the Paul Pad (2RP- 4051) and are waiting on lab results and will send you the closure when its done.

Lucas Middleton Staff Scientist (575) 689-5351 (mobile)



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From: Lucas Middleton To: Weaver, Crystal, EMNRD

Subject: RE: Paul Closure Report 2RP-4008 Date: Monday, April 24, 2017 2:43:28 PM

Attachments: image001.png

image002.png

Mid morning untill 4 will work

**From:** Weaver, Crystal, EMNRD [mailto:Crystal.Weaver@state.nm.us]

**Sent:** Monday, April 24, 2017 2:38 PM

To: Lucas Middleton < lucas.middleton@soudermiller.com>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>

**Cc:** Austin Weyant <austin.weyant@soudermiller.com>; Catherine Green

<CGreen@matadorresources.com>; Heather Patterson <heather.patterson@soudermiller.com>

Subject: RE: Paul Closure Report 2RP-4008

Thank you for the request Lucas.

Tomorrow could be doable, however, Mike is not in the office today to confirm that thought, so I will need to ask him tomorrow morning when he gets back. What time are you thinking for tomorrow?

**From:** Lucas Middleton [mailto:lucas.middleton@soudermiller.com]

**Sent:** Monday, April 24, 2017 12:15 PM

**To:** Weaver, Crystal, EMNRD < <u>Crystal.Weaver@state.nm.us</u>>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>

**Cc:** Austin Weyant <a href="mailto:austin.weyant@soudermiller.com">austin.weyant@soudermiller.com</a>>; Catherine Green

<CGreen@matadorresources.com>; Heather Patterson <heather.patterson@soudermiller.com>

Subject: Paul Closure Report 2RP-4008

Hello.

I would like to set up a meeting about the Matador Paul 25 24S 28E RB #221 (2RP-4008) so we can review the large amount of data submitted. If you can please allow additional time for the Matador Paul 25 24S 28E RB #221 2RP-4113. At your earliest, I am available tomorrow.

Thanks

Lucas Middleton Staff Scientist (575) 689-5351 (mobile)



Souder, Miller & Associates Engineering Environmental Surveying 201 S. Halagueno

### Carlsbad, NM 88220

### www.soudermiller.com

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From: Weaver, Crystal, EMNRD [mailto:Crystal.Weaver@state.nm.us]

Sent: Monday, April 24, 2017 10:43 AM

To: Lucas Middleton < lucas.middleton@soudermiller.com >; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>

**Cc:** Austin Weyant <a href="mailto:austin.weyant@soudermiller.com">
; Heather Patterson

<heather.patterson@soudermiller.com>

Subject: RE: Paul Updates

Hello all,

As I had indicated to Heather, and I believe Lucas as well, over the phone I am having some trouble reading thru the sampling label system and chronology of the closure report for 2RP-4008 (DOR-11/22/16). Also my understanding of why we agreed upon 3000ppm as background for this original site is also something I am currently having some trouble with. I was a very new employee at the time of this release and the process we went about to determine this was not well documented on OCD's end so I am now having trouble remembering exactly how we decided upon this figure. Was sample name D-2 from your second updated work plan sent to OCD on 12/15/16 what you changed to your background sample? Cause I am confused. Mike and I attempted to review all of the documents sent in to us to try and get it ironed out but we just are having a really hard time due to the sampling label system.

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Thank you,

### **Crystal Weaver**

**Environmental Specialist** 

OCD - Artesia District II

811 S. 1<sup>st</sup> Street

Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963 Fax: 575-748-9720

From: Lucas Middleton [mailto:lucas.middleton@soudermiller.com]

**Sent:** Monday, April 24, 2017 9:16 AM

**To:** Weaver, Crystal, EMNRD < <u>Crystal.Weaver@state.nm.us</u>>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>

**Subject:** Paul Updates

### Good Morning,

May I please get an update on the Matador Paul 25 24S 28E RB #221 (2RP-4113) work plan? We finished up the Paul Pad (2RP- 4051) and are waiting on lab results and will send you the closure when its done.

Lucas Middleton Staff Scientist (575) 689-5351 (mobile)



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From: Weaver, Crystal, EMNRD

To: "Catherine Green"

 Cc:
 Lucas Middleton;
 Bratcher, Mike, EMNRD

 Subject:
 RE: Paul Incident Feb 3 2RP-4113

 Date:
 Monday, May 15, 2017 11:08:00 AM

Attachments: RE Paul Updates .msq

Added to Amended Matador Paul 25 24S 28E RB #221 (2RP-4008) .msg

Hello Catherine.

Both release incident 2RP-4008 (DOR 11/22/16) and this current release incident 2RP-4113 (DOR 2/3/17) occurred from an issue with the same pipeline that connects to the Paul 25 24S 28E RB #221H facility (30-015-43018).

A meeting occurred on 4/25/17, between OCD representatives Mike Bratcher and Crystal Weaver & SMA representatives Heather Patterson and Lucas Middleton, regarding some clarification requests OCD had with the documents received pertaining to the 2RP-4008 incident. During that meeting it was stated that OCD was requesting an additional background sample at like depth (6 ft.). The original background sample (D-2) (which started out as a delineation attempt) received OCD verbal authorization to be used as a background sample. However, based on lab sample results of the delineation conducted next to the actual point of release (D-1), it is now OCD's request that a second background sample at like depth of 6' be collected and sent to the lab. OCD notes the background sample obtained (D-2) shows lab results of higher chloride numbers then the sample taken at the point of release (D-1) at like depth.

Also, since this current release cites that same background sample (D-2) tied to the first release 2RP-4008 I will state that this work plan for 2RP-4113 is approved based on the same stipulation that the second background sample at like depth be collected and sent to the lab. Please advise once remedial activities have been scheduled.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact Mike Bratcher and/or myself in the District II Office.

Thank you,

### **Crystal Weaver**

Environmental Specialist OCD – Artesia District II 811 S. 1<sup>st</sup> Street Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963 Fax: 575-748-9720

**From:** Catherine Green [mailto:CGreen@matadorresources.com]

Sent: Monday, March 20, 2017 3:51 PM

**To:** Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us> **Cc:** Lucas Middleton < lucas.middleton@soudermiller.com>

**Subject:** Paul Incident Feb 3 2RP-4113

Crystal,

Please find attached the Work Plan for the Paul Pipeline Incident that occurred on Feb 3, 2017 (pipeline incident #2). We look forward to clearing this incident. Thank you for your patience as the work plan was being prepared.

Kind Regards,

Catherine Green Regulatory Analyst 575-627-2453-Office 720-220-7482-Mobile

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### **Bratcher, Mike, EMNRD**

From: Lucas Middleton < lucas.middleton@soudermiller.com>

**Sent:** Wednesday, June 28, 2017 1:40 PM

To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD

**Subject:** Back Fill Request Paul #221 2RP-4113

**Attachments:** Paul ocd 6-28-17.pdf

### Good afternoon,

This email is regarding the Matador Paul 25 24S 28E RB #221 (2RP-4113). I would like to get a backfill approval on this site so we may finish up the job and get equipment off location. Attached is a Table with Sidewall and bottom hole sulfate data compared to background. We spoke about using the sulfates to track the release. Also a map and the laboratory results include.

Please call with any questions or comments

Lucas Middleton Staff Scientist (575) 499-9244 (mobile)



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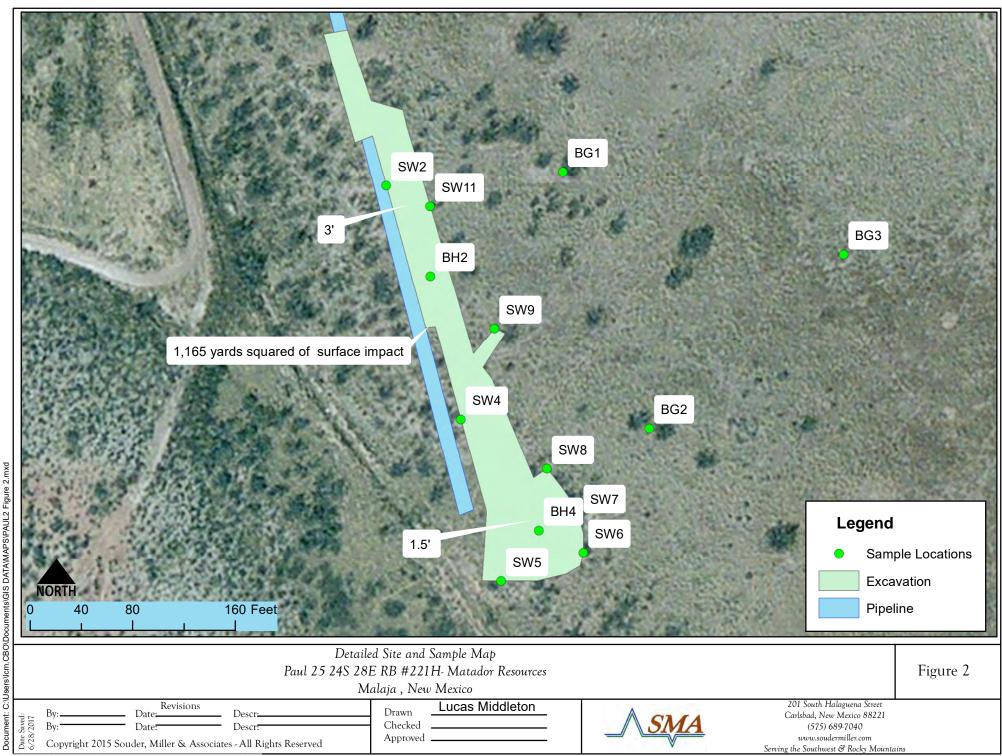
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### Summary of Sulfate Results compared to Background<sup>1</sup>

| Sample Number on Figure 2 Map | Depth | Sulfate<br>mg/Kg | Background <sup>2</sup> |
|-------------------------------|-------|------------------|-------------------------|
| SW2                           | 1.5'  | 6400             | 8850                    |
| SW4                           | 1'    | 5800             | 7700                    |
| SW5                           | 1'    | 5400             | 7700                    |
| SW6                           | 1'    | 5300             | 7700                    |
| SW7                           | 1'    | 5100             | 7700                    |
| SW8                           | 1'    | 5100             | 7700                    |
| SW9                           | 0.5'  | 5100             | 6250                    |
| SW11                          | 1.5'  | 5300             | 8850                    |
| BH2                           | 3'    | 4100             | 7800                    |
| BH2                           | 5.5   | 7500             | 7400                    |
| BH2                           | 10'   | 6300             | 7200                    |
| BH4                           | 1.5   | 5600             | 8850                    |

<sup>&</sup>lt;sup>1</sup>SMA determined that the comparison of Nitrate Background data to Nitrate Excavation data are a Null Hypothesis

<sup>&</sup>lt;sup>2</sup>Background numbers are an average of the 2 nearest delineation samples that is representing the soil horizon at given depth



Released to Imaging: 10/1/2024 11:13:49 AM

**CLIENT:** Souder, Miller & Associates

**Analytical Report** Lab Order 1706A44

Date Reported:

### Hall Environmental Analysis Laboratory, Inc.

**Client Sample ID: SW2** 

Collection Date: 6/12/2017 10:30:00 AM **Project:** Matador Paul 2nd 1706A44-001 Lab ID:

Received Date: 6/20/2017 10:15:00 AM Matrix: SOIL

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed         | Batch   |
|--------------------------|--------|--------|----------|--------------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          | Analy                    | st: MRA |
| Chloride                 | 5500   | 300    | mg/Kg    | 200 6/27/2017 4:36:37 AM | M 32485 |
| Nitrogen, Nitrate (As N) | 8.4    | 6.0    | mg/Kg    | 20 6/26/2017 1:05:47 PM  | M 32485 |
| Sulfate                  | 6400   | 300    | mg/Kg    | 200 6/27/2017 4:36:37 AM | M 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 0 J
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

**CLIENT:** Souder, Miller & Associates

**Analytical Report**Lab Order **1706A44** 

Date Reported:

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW4

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-002
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 140    | 75     | mg/Kg    | 50 | 6/27/2017 4:49:02 AM | 1 32485 |
| Nitrogen, Nitrate (As N) | 1.9    | 0.30   | mg/Kg    | 1  | 6/26/2017 1:43:01 PN | 1 32485 |
| Sulfate                  | 5800   | 75     | mg/Kg    | 50 | 6/27/2017 4:49:02 AN | 1 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**Analytical Report**Lab Order **1706A44** 

Date Reported:

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW5

**Project:** Matador Paul 2nd

**CLIENT:** Souder, Miller & Associates

Collection Date: 6/12/2017 10:30:00 AM Received Date: 6/20/2017 10:15:00 AM

**Lab ID:** 1706A44-003

Matrix: SOIL

**PQL Qual Units Analyses** Result **DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: MRA 6/26/2017 2:45:04 PM 30 Chloride 1000 mg/Kg 32485 1.5 mg/Kg 5 6/26/2017 2:32:40 PM Nitrogen, Nitrate (As N) 2.3 32485 Sulfate 5400 75 mg/Kg 6/27/2017 5:01:27 AM 32485

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**CLIENT:** Souder, Miller & Associates

**Analytical Report** Lab Order **1706A44** 

Date Reported:

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW6

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-004
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 19     | 7.5    | mg/Kg    | 5  | 6/26/2017 2:57:28 PM | A 32485 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5  | 6/26/2017 2:57:28 PN | A 32485 |
| Sulfate                  | 5300   | 75     | mg/Kg    | 50 | 6/27/2017 5:13:52 AM | A 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**Analytical Report** Lab Order **1706A44** 

Date Reported:

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW7

**Project:** Matador Paul 2nd

**CLIENT:** Souder, Miller & Associates

**Collection Date:** 6/12/2017 10:30:00 AM

**Lab ID:** 1706A44-005

Matrix: SOIL

**Received Date:** 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qual Units |       | DF Date Analyzed |                      | Batch    |
|--------------------------|--------|----------------|-------|------------------|----------------------|----------|
| EPA METHOD 300.0: ANIONS |        |                |       |                  | Analy                | /st: MRA |
| Chloride                 | 15     | 7.5            | mg/Kg | 5                | 6/26/2017 3:22:16 PI | M 32485  |
| Nitrogen, Nitrate (As N) | 1.7    | 1.5            | mg/Kg | 5                | 6/26/2017 3:22:16 PI | M 32485  |
| Sulfate                  | 5100   | 75             | mg/Kg | 50               | 6/27/2017 5:26:17 AI | M 32485  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**CLIENT:** Souder, Miller & Associates

**Analytical Report** Lab Order **1706A44** 

Date Reported:

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW8

**Project:** Matador Paul 2nd **Collection Date:** 6/12/2017 10:30:00 AM

**Lab ID:** 1706A44-006 **Matrix:** SOIL **Received Date:** 6/20/2017 10:15:00 AM

| Analyses                 | Result | <b>PQL Qual Units</b> |       | DF Date Analyzed |                      | Batch    |
|--------------------------|--------|-----------------------|-------|------------------|----------------------|----------|
| EPA METHOD 300.0: ANIONS |        |                       |       |                  | Analy                | /st: MRA |
| Chloride                 | 1200   | 75                    | mg/Kg | 50               | 6/27/2017 5:38:41 Al | M 32485  |
| Nitrogen, Nitrate (As N) | 1.9    | 1.5                   | mg/Kg | 5                | 6/26/2017 4:11:55 PI | M 32485  |
| Sulfate                  | 5100   | 75                    | mg/Kg | 50               | 6/27/2017 5:38:41 Al | M 32485  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**CLIENT:** Souder, Miller & Associates

**Analytical Report** Lab Order 1706A44

Date Reported:

### Hall Environmental Analysis Laboratory, Inc.

**Client Sample ID: SW9** 

Collection Date: 6/12/2017 10:30:00 AM **Project:** Matador Paul 2nd 1706A44-007 Lab ID:

Matrix: SOIL Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | <b>PQL Qual Units</b> |       | DF Date Analyzed |                      | Batch   |
|--------------------------|--------|-----------------------|-------|------------------|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |                       |       |                  | Analy                | st: MRA |
| Chloride                 | 140    | 7.5                   | mg/Kg | 5                | 6/26/2017 4:36:44 PM | Л 32485 |
| Nitrogen, Nitrate (As N) | 2.8    | 1.5                   | mg/Kg | 5                | 6/26/2017 4:36:44 PM | Л 32485 |
| Sulfate                  | 5100   | 75                    | mg/Kg | 50               | 6/27/2017 5:51:06 AM | Л 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- Analyte detected below quantitation limits Page 7 of 0 J
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Souder, Miller & Associates Client Sample ID: SW11

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-008
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 87     | 7.5    | mg/Kg    | 5  | 6/26/2017 5:01:33 PM | M 32485 |
| Nitrogen, Nitrate (As N) | 3.1    | 1.5    | mg/Kg    | 5  | 6/26/2017 5:01:33 PM | M 32485 |
| Sulfate                  | 5300   | 75     | mg/Kg    | 50 | 6/27/2017 6:03:30 AM | M 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH 2-3

**Project:** Matador Paul 2nd

**CLIENT:** Souder, Miller & Associates

Collection Date: 6/12/2017 10:30:00 AM

1706A44-009 Matrix: SOIL Received Date: 6/20/2017 10:15:00 AM Lab ID:

| Analyses                 | Result | PQL Qual Units |       | DF Date Analyzed        | Batch     |
|--------------------------|--------|----------------|-------|-------------------------|-----------|
| EPA METHOD 300.0: ANIONS |        |                |       | Ana                     | lyst: MRA |
| Chloride                 | 3000   | 150            | mg/Kg | 100 6/27/2017 6:15:54 A | AM 32485  |
| Nitrogen, Nitrate (As N) | ND     | 1.5            | mg/Kg | 5 6/26/2017 5:26:23 F   | PM 32485  |
| Sulfate                  | 4100   | 150            | mg/Kg | 100 6/27/2017 6:15:54 A | AM 32485  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- Analyte detected below quantitation limits Page 9 of 0 J
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

**CLIENT:** Souder, Miller & Associates

**Analytical Report**Lab Order **1706A44** 

Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH 2-5.5

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-010
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qual Units |       | DF  | Batch                |         |
|--------------------------|--------|----------------|-------|-----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |                |       |     | Analy                | st: MRA |
| Chloride                 | 2100   | 150            | mg/Kg | 100 | 6/27/2017 6:28:19 AM | A 32485 |
| Nitrogen, Nitrate (As N) | ND     | 1.5            | mg/Kg | 5   | 6/26/2017 5:51:13 PM | Л 32485 |
| Sulfate                  | 7500   | 150            | mg/Kg | 100 | 6/27/2017 6:28:19 AM | A 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**CLIENT:** Souder, Miller & Associates

**Analytical Report** Lab Order 1706A44

Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH 2-10

Collection Date: 6/12/2017 10:30:00 AM

**Project:** Matador Paul 2nd 1706A44-011 Matrix: SOIL Received Date: 6/20/2017 10:15:00 AM Lab ID:

| Analyses                 | Result | PQL Qu | al Units | DF  | Date Analyzed        | Batch    |
|--------------------------|--------|--------|----------|-----|----------------------|----------|
| EPA METHOD 300.0: ANIONS |        |        |          |     | Analy                | /st: MRA |
| Chloride                 | 1200   | 150    | mg/Kg    | 100 | 6/27/2017 9:08:03 Af | M 32485  |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5   | 6/26/2017 6:40:51 PI | M 32485  |
| Sulfate                  | 6300   | 150    | mg/Kg    | 100 | 6/27/2017 9:08:03 Af | M 32485  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- Analyte detected below quantitation limits Page 11 of 0 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BH 4-1.5

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-012
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 300    | 7.5    | mg/Kg    | 5  | 6/26/2017 7:05:40 PM | M 32485 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5  | 6/26/2017 7:05:40 PM | M 32485 |
| Sulfate                  | 5600   | 75     | mg/Kg    | 50 | 6/27/2017 9:20:27 AM | M 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 12 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-S

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-013
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 24     | 7.5    | mg/Kg    | 5  | 6/26/2017 7:30:29 PM | M 32485 |
| Nitrogen, Nitrate (As N) | 6.3    | 1.5    | mg/Kg    | 5  | 6/26/2017 7:30:29 PM | M 32485 |
| Sulfate                  | 4800   | 75     | mg/Kg    | 50 | 6/27/2017 9:32:52 AM | M 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 13 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-1

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-014
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF  | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|-----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |     | Analy                | st: MRA |
| Chloride                 | 1000   | 30     | mg/Kg    | 20  | 6/26/2017 8:07:43 PM | M 32485 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5   | 6/26/2017 7:55:18 PM | M 32485 |
| Sulfate                  | 7700   | 150    | mg/Kg    | 100 | 6/27/2017 9:45:17 AM | M 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 14 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BGC-2

**CLIENT:** Souder, Miller & Associates **Project:** Matador Paul 2nd

**Collection Date:** 6/12/2017 10:45:00 AM

**Lab ID:** 1706A44-015

**Matrix:** SOIL **Received Date:** 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed        | Batch     |
|--------------------------|--------|--------|----------|-------------------------|-----------|
| EPA METHOD 300.0: ANIONS |        |        |          | Ana                     | lyst: MRA |
| Chloride                 | 3200   | 150    | mg/Kg    | 100 6/27/2017 9:57:41 A | AM 32503  |
| Nitrogen, Nitrate (As N) | 1.5    | 1.5    | mg/Kg    | 5 6/26/2017 9:09:47 F   | PM 32503  |
| Sulfate                  | 10000  | 150    | mg/Kg    | 100 6/27/2017 9:57:41 A | AM 32503  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 15 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab ID:

**CLIENT:** Souder, Miller & Associates

1706A44-016

**Analytical Report**Lab Order **1706A44** 

Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BGC-3

**Project:** Matador Paul 2nd **Collection Date:** 6/12/2017 10:45:00 AM

**Received Date:** 6/20/2017 10:15:00 AM

**PQL Qual Units Analyses** Result **DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: MRA 200 6/27/2017 10:10:05 AM 32503 300 Chloride 4800 mg/Kg 1.5 mg/Kg 6/26/2017 9:59:26 PM Nitrogen, Nitrate (As N) 1.6 Sulfate 7800 300 mg/Kg 200 6/27/2017 10:10:05 AM 32503

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 16 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**Analytical Report** Lab Order 1706A44 Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

**Client Sample ID:** BGC-4

**CLIENT:** Souder, Miller & Associates Collection Date: 6/12/2017 10:45:00 AM **Project:** Matador Paul 2nd

1706A44-017 Matrix: SOIL Received Date: 6/20/2017 10:15:00 AM Lab ID:

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed         | Batch    |
|--------------------------|--------|--------|----------|--------------------------|----------|
| EPA METHOD 300.0: ANIONS |        |        |          | Anal                     | yst: MRA |
| Chloride                 | 4800   | 150    | mg/Kg    | 100 6/27/2017 10:22:30 / | AM 32503 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5 6/26/2017 10:24:16 I   | PM 32503 |
| Sulfate                  | 9500   | 150    | mg/Kg    | 100 6/27/2017 10:22:30 / | AM 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- Analyte detected below quantitation limits Page 17 of 0 J
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

**CLIENT:** Souder, Miller & Associates

Analytical Report
Lab Order 1706A44
Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BGC-6

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-018
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed       | Batch    |
|--------------------------|--------|--------|----------|------------------------|----------|
| EPA METHOD 300.0: ANIONS |        |        |          | Anal                   | yst: MRA |
| Chloride                 | 3500   | 150    | mg/Kg    | 100 6/27/2017 10:34:55 | AM 32503 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5 6/26/2017 10:49:05   | PM 32503 |
| Sulfate                  | 5300   | 150    | mg/Kg    | 100 6/27/2017 10:34:55 | AM 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 18 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-8

Project: Matador Paul 2nd Collection Date: 6/12/2017 10:45:00 AM

**Lab ID:** 1706A44-019 **Matrix:** SOIL **Received Date:** 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed         | Batch   |
|--------------------------|--------|--------|----------|--------------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          | Analy                    | st: MRA |
| Chloride                 | 2400   | 150    | mg/Kg    | 100 6/27/2017 10:47:20 A | M 32503 |
| Nitrogen, Nitrate (As N) | 1.6    | 1.5    | mg/Kg    | 5 6/26/2017 11:38:45 F   | M 32503 |
| Sulfate                  | 8300   | 150    | mg/Kg    | 100 6/27/2017 10:47:20 A | M 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 19 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**Project:** 

**CLIENT:** Souder, Miller & Associates

Matador Paul 2nd

Analytical Report
Lab Order 1706A44
Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BGC-10

**Collection Date:** 6/12/2017 10:45:00 AM

**Lab ID:** 1706A44-020 **Matrix:** SOIL **Received Date:** 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF 1 | Date Analyzed        | Batch    |
|--------------------------|--------|--------|----------|------|----------------------|----------|
| EPA METHOD 300.0: ANIONS |        |        |          |      | Analy                | /st: MRA |
| Chloride                 | 2700   | 150    | mg/Kg    | 100  | 6/27/2017 10:59:44   | AM 32503 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5    | 6/27/2017 12:03:34 / | AM 32503 |
| Sulfate                  | 7200   | 150    | mg/Kg    | 100  | 6/27/2017 10:59:44   | AM 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 20 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**CLIENT:** Souder, Miller & Associates

**Analytical Report** Lab Order **1706A44** 

Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BGC-12

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-021
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | nalyses Result PQL Qual |     | al Units | DF I | Date Analyzed      | Batch    |
|--------------------------|-------------------------|-----|----------|------|--------------------|----------|
| EPA METHOD 300.0: ANIONS |                         |     |          |      | Anal               | yst: MRA |
| Chloride                 | 1300                    | 150 | mg/Kg    | 100  | 6/27/2017 11:36:58 | AM 32503 |
| Nitrogen, Nitrate (As N) | ND                      | 1.5 | mg/Kg    | 5    | 6/27/2017 12:28:23 | AM 32503 |
| Sulfate                  | 7100                    | 150 | mg/Kg    | 100  | 6/27/2017 11:36:58 | AM 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 21 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### Bratcher, Mike, EMNRD

**From:** Bratcher, Mike, EMNRD

**Sent:** Thursday, June 29, 2017 6:44 AM

**To:** 'Lucas Middleton'; Weaver, Crystal, EMNRD **Subject:** RE: Back Fill Request Paul #221 2RP-4113

RE: Matador Production \* 2RP-4113

Lucas,

Your request to backfill is approved.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher NMOCD District 2 811 S. First St. Artesia NM 88210 575-748-1283 Ext 108 mike.bratcher@state.nm.us

**From:** Lucas Middleton [mailto:lucas.middleton@soudermiller.com]

Sent: Wednesday, June 28, 2017 1:40 PM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>

Subject: Back Fill Request Paul #221 2RP-4113

#### Good afternoon,

This email is regarding the Matador Paul 25 24S 28E RB #221 (2RP-4113). I would like to get a backfill approval on this site so we may finish up the job and get equipment off location. Attached is a Table with Sidewall and bottom hole sulfate data compared to background. We spoke about using the sulfates to track the release. Also a map and the laboratory results include.

Please call with any questions or comments

Lucas Middleton Staff Scientist (575) 499-9244 (mobile)



Engineering ☐ Environmental ☐ Surveying 201 S. Halagueno Carlsbad, NM 88220 www.soudermiller.com

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#### **Bratcher, Mike, EMNRD**

From: Lucas Middleton < lucas.middleton@soudermiller.com>

**Sent:** Tuesday, July 18, 2017 9:14 AM

**To:** Bratcher, Mike, EMNRD

Csnow (Csnow@matadorresources.com); Weaver, Crystal, EMNRD

Subject: FINAL CLOSURE REPORT FOR INCIDENT 2RP-4113, Paul 25 24S 28E RB #221H, UNIT D SECTION 25-

T24S-R28E NMPM, API# 30-015-43018, EDDY COUNTY, NEW MEXICO

Attachments: FINAL CLOSURE REPORT FOR INCIDENT 2RP-4113, Paul 25 24S 28E RB #221H, UNIT D SECTION 25-

T24S-R28E NMPM, API# 30-015-43018, EDDY COUNTY, NEW MEXICO.PDF

Mike Bratcher,

Oh behalf of Matador Resources I am requesting an approved closure for INCIDENT 2RP- 4113, Paul 25 24S 28E RB #221H, UNIT D SECTION 25-T24S-R28E NMPM, API# 30-015-43018. I have attached a final closure report to this email.

Lucas Middleton Staff Scientist (575) 689-5351 (mobile)



Souder, Miller & Associates

Engineering □ Environmental □ Surveying

201 S. Halagueno Carlsbad, NM 88220

www.soudermiller.com

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July 12, 2017

#5B24624-BG24

Mike Bratcher Environmental Specialist NMOCD District II 1301 W Grand Ave Artesia, NM 88210

SUBJECT: FINAL CLOSURE REPORT FOR INCIDENT 2RP-4113, Paul 25 24S 28E RB #221H, UNIT D SECTION 25-T24S-R28E NMPM, API# 30-015-43018, EDDY COUNTY, NEW MEXICO

Dear Mr. Bratcher:

On behalf of Matador Production Company, Souder, Miller & Associates (SMA) has prepared this CLOSURE REPORT that describes the initial characterization and remediation for a release (2RP-4113) associated with the Paul 25 24S 28E RB #221H. The site is in UNIT D, SECTION 25, TOWNSHIP 24S, RANGE 28E, NMPM, Eddy County, New Mexico, on fee land. Figure 1 illustrates the vicinity and location of the site.

Table 1, below, summarizes information regarding the release.

| Table 1: Rele                    | ease information and Site Ranking                      |
|----------------------------------|--------------------------------------------------------|
| Name                             | Paul 25 24S 28E RB #221H                               |
| Company                          | Matador Production Company                             |
| Incident Number                  | 2RP-4113                                               |
| API Number                       | 30-015-43018                                           |
| Location                         | 32.198747° -104.049118°                                |
| Estimated Date of Release        | February 3, 2017                                       |
| Date Reported to NMOCD           | February 6, 2017                                       |
| Land Owner                       | Fee                                                    |
| Reported To                      | Crystal Weaver                                         |
| Source of Release                | Buried pipeline                                        |
| Released Material                | Produced water                                         |
| Released Volume                  | 100 BBL                                                |
| Recovered Volume                 | 80 BBL                                                 |
| Net Release                      | 20 BBL                                                 |
| Nearest Waterway                 | Nearest surface water is 1.3 miles east of Willow Lake |
| Depth to Groundwater             | Estimated to be 49 feet                                |
| Nearest Domestic Water<br>Source | Greater than 1,000 feet                                |
| NMOCD Ranking                    | 20                                                     |
| SMA Response Dates               | 02/20/2017                                             |

Paul 25 #221H Closure July 12, 2017 Page 2 of 3

#### 1.0 Background

A pipeline leak occurred along the buried pipeline located north of the Paul 25 #221H. The cause of this leak is unknown, releasing 100 bbl of produced water within the right of way and adjacent pasture. SMA characterized the release and proposed further excavation in the Workplan dated March 6, 2017. The surface impact was determined to be approximately 420 feet long by 20 feet wide.

#### 2.0 Site Ranking and Land Jurisdiction

Willow Lake is approximately 1.3 miles east of the release location. The elevation of the release site is approximately 2,934 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be less than 100 feet below ground surface (bgs). The New Mexico Office of the State Engineer (NMOSE) Database indicates one well, C 03833, in the vicinity with a recorded depth to water of 55 feet. When correlated with relative elevation of the release site, the depth to water is 49 feet.

Recommended Remediation Action Levels (RRALs) are determined by the site ranking according to the NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (1993). Below in Table 2 are the remediation standards and the site ranking for this location. Justification for this site ranking is found in Figure 1 and Appendix B.

Table 2.

| Soil Remediation Standards | 0 to 9   | 10 to 19 | >19     |
|----------------------------|----------|----------|---------|
| Benzene                    | 10 PPM   | 10 PPM   | 10 PPM  |
| BTEX                       | 50 PPM   | 50 PPM   | 50 PPM  |
| ТРН                        | 5000 PPM | 1000 PPM | 100 PPM |

| Depth to Groundwater              | NMOCD Numeric Rank |
|-----------------------------------|--------------------|
| < 50 BGS = 20                     | 20                 |
| 50' to 99' = 10                   |                    |
| >100' = 0                         |                    |
| Distance to Nearest Surface Water | NMOCD Numeric Rank |
| < 200' = 20                       |                    |
| 200' - 1000' = 10                 |                    |
| >1000' = 0                        | 0                  |
| Well Head Protection              | NMOCD Numeric Rank |
| <1000' (or <200' domestic) = 20   |                    |
| > 1000' = 0                       | 0                  |
| Total Site Ranking                | 20                 |

Paul 25 #221H Closure July 12, 2017 Page 3 of 3

#### 3.0 Release Characterization

On February 20, 2017 after receiving 811 clearance, SMA field personnel assessed the remediated release area onsite with a backhoe and a mobile chlorides titration kit EPA method 9045D meter. The remediated release area was found to be approximately 420 feet long and 20 feet wide. The site delineation samples were taken to depths of 12 feet bgs. Specific sample locations for all samples are depicted on Figure 2 (Sample Location Map) along with sampling details within Table 3. All samples were collected and processed according to NMOCD soil sampling procedures. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for total Chlorides using EPA Method 300.0.

#### 4.0 Summary of Soil Remediation

On June 7, 2017, with approval from area utilities owners via 811, SMA oversaw further excavation of the affected soils. Excavation occurred to depths of approximately 6 feet bgs at the point of the release, 2 fee bgs in the right of way and 1.5 feet bgs in the pasture to sufficiently remove the impacted materials to NMOCD requirements. In the pipeline area, excavation occurred only outside four feet horizontally from the pipeline due to pipeline safety concerns. SMA continuously guided the excavation activities by collecting composite soil samples for field screening with a mobile titration unit (EPA 4500) and sulfates testing from the laboratory. Approximately 600 additional cubic yards of contaminated soil were removed. Backfilling of the excavation occurred after the approval from NMOCD on 6/29/2017. Clean backfill material was used to return the surface to previous contours. The contaminated soil was transported for proper disposal at Lea Land, an NMOCD permitted disposal facility. Closure samples were collected at the final depth of excavation and from the excavation sidewalls. The closure samples taken were tested for sulfates. Sulfates were used as a reference criterion on this release due to the high background chlorides from previous agricultural activities, as discussed with the Environmental Specialist at NMOCD. Three background sample locations were used to establish the background level of sulfates in the area. The closure samples tested for sulfates were compared to the background sample results to help determine that contaminated soils were adequately removed. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for sulfates. All closure samples were below NMOCD RRAL's for this site.

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Paul 25 #221H Closure July 12, 2017 Page 4 of 4

#### 5.0 Scope and Limitations

The scope of our services consisted of the performance of assessment sampling, verification of release stabilization, remediation oversight, regulatory liaison, and preparation of this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-8801 or Cynthia Gray at 505-325-7535, extension 1104.

Submitted by:

SOUDER, MILLER & ASSOCIATES

Austin Weyant Project Scientist Reviewed by:

Cynthia Gray, CHMM Senior Scientist

#### **ATTACHMENTS:**

#### Figures:

Figure 1: Vicinity and NMOSE Well Head Protection Map

Figure 2: Site and Sample Location Map

#### Tables:

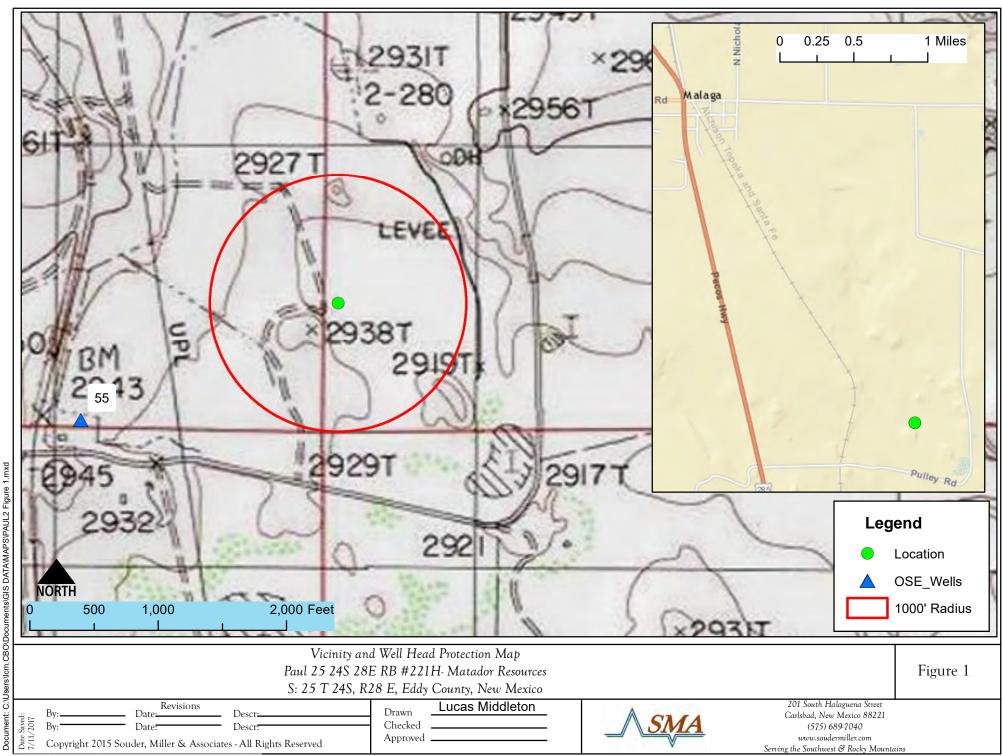
Table 3: Summary of Sample Results

#### Appendices:

Appendix A: Form C141 Final Appendix B: NMOSE Wells Report

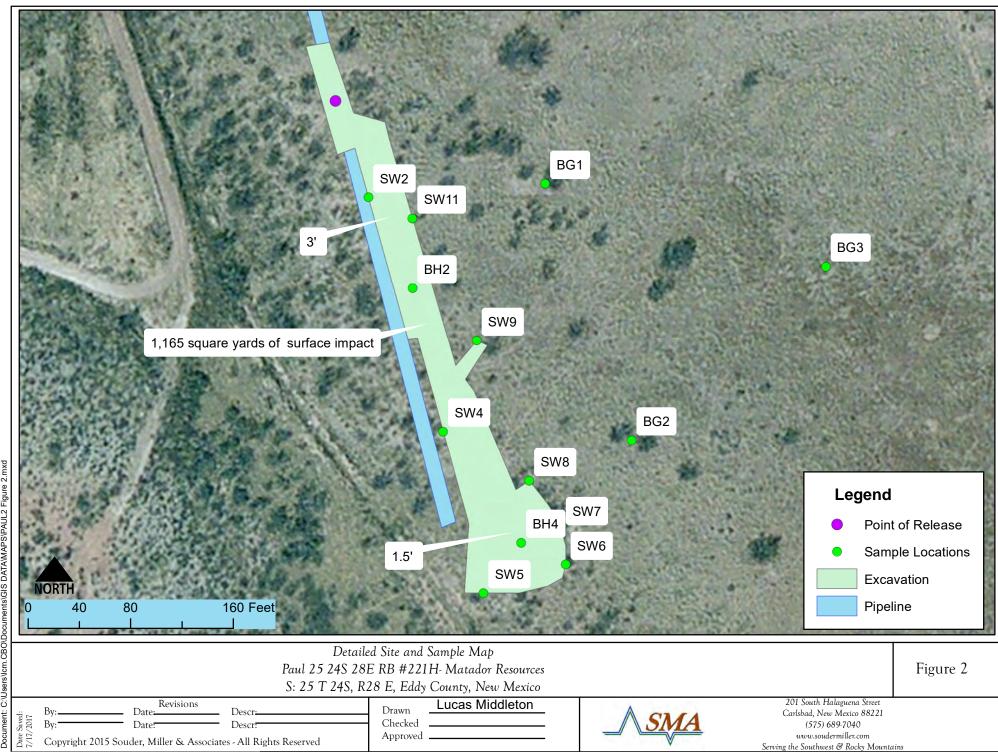
Appendix C: Laboratory Analytical Reports

# FIGURE 1 VICINITY AND NMOSE DATA MAP



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## FIGURE 2 SITE AND SAMPLE LOCATION MAP



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## TABLE 3 SUMMARY SAMPLE RESULTS

#### **Summary of Sample Results<sup>1</sup>**

| Sample Number on Figure 2 Map | Depth | Sulfate<br>mg/Kg | Background <sup>2</sup> |
|-------------------------------|-------|------------------|-------------------------|
| SW2                           | 1.5'  | 6400             | 8850                    |
| SW4                           | 1'    | 5800             | 7700                    |
| SW5                           | 1'    | 5400             | 7700                    |
| SW6                           | 1'    | 5300             | 7700                    |
| SW7                           | 1'    | 5100             | 7700                    |
| SW8                           | 1'    | 5100             | 7700                    |
| SW9                           | 0.5'  | 5100             | 6250                    |
| SW11                          | 1.5'  | 5300             | 8850                    |
| BH2                           | 3'    | 4100             | 7800                    |
| BH2                           | 5.5   | 7500             | 7400                    |
| BH2                           | 10'   | 6300             | 7200                    |
| BH4                           | 1.5   | 5600             | 8850                    |

<sup>&</sup>lt;sup>1</sup>SMA determined that the comparison of Nitrate Background data to Nitrate Excavation data are a Null Hypothesis

<sup>&</sup>lt;sup>2</sup>Background numbers are an average of the 2 nearest delineation samples that is representing the soil horizon at given depth

### APPENDIX A FORM C141 FINAL

Received by OCD: 9/18/2024 9:56:21 AM

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 S. First St., Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

District IV

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Page 605 of 874

Form C-141

|                                                                 |                                                         |                                                  | Rele                                                 | ease Notific                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | catio                         | n and Co                                                         | orrective A                                                                                       | ction                              | l                                         |                                               |                               |                                   |
|-----------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------|-----------------------------------------------|-------------------------------|-----------------------------------|
|                                                                 |                                                         |                                                  |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               | <b>OPERA</b>                                                     |                                                                                                   |                                    | ☐ Initia                                  | al Report                                     | $\boxtimes$                   | Final Report                      |
|                                                                 |                                                         | atador Resor                                     |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                                                  | herine Green                                                                                      |                                    |                                           |                                               |                               |                                   |
|                                                                 |                                                         | St Ste One R<br>5 24S 28E R                      |                                                      | M 88201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                               | Telephone I Facility Tyr                                         | No.575-623-660                                                                                    | <u> </u>                           |                                           |                                               |                               |                                   |
| raciity Na                                                      | ne Paul 23                                              | 245 ZOE K                                        | D #221F1                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               | racility Typ                                                     | e OII                                                                                             |                                    |                                           |                                               |                               |                                   |
| Surface Ow                                                      | ner Fee                                                 |                                                  |                                                      | Mineral (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Owner I                       | Fee                                                              |                                                                                                   |                                    | API No                                    | .30-015-43                                    | 018                           |                                   |
|                                                                 |                                                         |                                                  |                                                      | LOCA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ATIO                          | N OF RE                                                          | LEASE                                                                                             |                                    |                                           |                                               |                               |                                   |
| Unit Letter<br>D                                                | Section 25                                              | Township<br>24S                                  | Range<br>28E                                         | Feet from the 359                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | North<br>N                    | South Line                                                       | Feet from the 217                                                                                 | East/V<br>W                        | Vest Line                                 | County<br>Eddy                                |                               |                                   |
|                                                                 |                                                         | Latitu                                           | ide_32.19                                            | 94817                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               | Longitude                                                        | -104.0487226                                                                                      |                                    |                                           |                                               |                               |                                   |
|                                                                 |                                                         |                                                  |                                                      | NAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ΓURE                          | OF REL                                                           |                                                                                                   |                                    |                                           |                                               |                               |                                   |
| Type of Rele                                                    |                                                         |                                                  |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               | _                                                                | Release ~100BB                                                                                    |                                    |                                           | Recovered 80                                  |                               | C-1- 2- 2017                      |
| Source of Re                                                    | lease pipeli                                            | ne                                               |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               | 3, 2017 7a                                                       | Hour of Occurrence                                                                                | e Feb                              | 7:30am                                    | Hour of Dis                                   | covery i                      | reb 3, 2017                       |
| Was Immedi                                                      | ate Notice (                                            | Given?                                           |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               | If YES, To                                                       |                                                                                                   |                                    | 7.50411                                   |                                               |                               |                                   |
| Required                                                        |                                                         | x[                                               | Yes [                                                | □ No □ Not                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                               | Crystal Wo                                                       | eaver, voicemail                                                                                  |                                    |                                           |                                               |                               |                                   |
| By Whom?                                                        |                                                         |                                                  |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                                                  | Hour Feb. 3 2017                                                                                  |                                    |                                           |                                               |                               |                                   |
| Was a Water                                                     | course Read                                             | ched?                                            | Yes x                                                | □ No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               | If YES, Vo                                                       | olume Impacting t                                                                                 | he Wate                            | ercourse.                                 |                                               |                               |                                   |
| Water recycl<br>Down Valve<br>Well shut in<br>area currently    | ing facility had failed to isolate ling fenced off      | to close. Leas<br>ne, vacuum tru<br>. Vacuum tru | on Emerge<br>se operator<br>uck called<br>ack remove | ncy Shut Down.  drove right of water the control of | ay to Tig<br>down at          | ger and found<br>spill sight, lo                                 | o Paul location the<br>produced water of<br>cated pipe with he<br>ced Shut Down V                 | n groun<br>le it in.               | d at (~32°1<br>Crew repl                  | 1'52", 104°                                   | 2'55".1                       | 79999).                           |
|                                                                 |                                                         | and Cleanup A<br>uare yards of                   |                                                      | ken.* apacted. Remove                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | and repl                      | ace impacted                                                     | soil.                                                                                             |                                    |                                           |                                               |                               |                                   |
| regulations a<br>public health<br>should their<br>or the enviro | Il operators<br>or the envi-<br>operations homent. In a | are required tronment. The                       | to report and acceptant adequately OCD accept        | nd/or file certain in the certain in | release nort by the remediate | otifications a<br>e NMOCD m<br>e contaminat                      | knowledge and und perform correct<br>larked as "Final Right too that pose a three the operator of | tive act<br>eport" of<br>eat to gr | ions for rel<br>loes not rel<br>ound wate | eases which<br>ieve the oper<br>r, surface wa | may end<br>ator of later, hun | danger<br>liability<br>nan health |
| Signature: 6                                                    | nthesine sp                                             | 100m. []                                         | 6                                                    | 2 snow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                               | OIL CONSERVATION DIVISION  Approved by Environmental Specialist: |                                                                                                   |                                    |                                           |                                               |                               |                                   |
| Title: Regula                                                   | tory Analys                                             | MANA MA                                          |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               | Approval Da                                                      | te:                                                                                               |                                    | Expiration                                | Date:                                         |                               |                                   |
| E-mail Addre                                                    | CSNOT<br>ess: egreen@                                   |                                                  | urces.com                                            | 2.37/54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                               | Conditions o                                                     |                                                                                                   |                                    |                                           | Attached                                      |                               |                                   |
|                                                                 |                                                         | ets If Necess                                    |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               |                                                                  |                                                                                                   |                                    |                                           | 1                                             |                               |                                   |

## APPENDIX B NMOSE WELLS REPORT



## New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| 3 /          | /              |             |           | <b>o</b> , ( |           | ,        | ,               |     |
|--------------|----------------|-------------|-----------|--------------|-----------|----------|-----------------|-----|
|              | POD            |             |           |              |           |          |                 |     |
|              | Sub-           | QQQ         |           |              |           | D        | epth Depth Wat  | ter |
| POD Number   | Code basin Cou | nty 64 16 4 | Sec Tws R | ng X         | Υ         | Distance | Well Water Colu | mn  |
| C 03833 POD1 | C E            | 2 1 2       | 26 24S 2  | 8E 589014    | 3562545 🌑 | 660      | 96 55           | 41  |
| C 03358 POD1 | C E            | 0 1 4 1     | 26 24S 2  | 8E 588416    | 3562116 🎒 | 1287     | 135             |     |

Average Depth to Water: 55 feet

Minimum Depth: 55 feet

Maximum Depth: 55 feet

**Record Count: 2** 

UTMNAD83 Radius Search (in meters):

**Easting (X):** 589664.55 **Northing (Y):** 3562429.4 **Radius:** 1500

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

## APPENDIX C LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 30, 2017

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: Matador Paul 2nd OrderNo.: 1706A44

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 21 sample(s) on 6/20/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW2

**CLIENT:** Souder, Miller & Associates **Project:** Matador Paul 2nd Collection Date: 6/12/2017 10:30:00 AM

Lab ID: 1706A44-001 Matrix: SOIL Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qual Units |       | DF Date Analyzed         | Batch   |
|--------------------------|--------|----------------|-------|--------------------------|---------|
| EPA METHOD 300.0: ANIONS |        |                |       | Analys                   | st: MRA |
| Chloride                 | 5500   | 300            | mg/Kg | 200 6/27/2017 4:36:37 AM | 32485   |
| Nitrogen, Nitrate (As N) | 8.4    | 6.0            | mg/Kg | 20 6/26/2017 1:05:47 PM  | 32485   |
| Sulfate                  | 6400   | 300            | mg/Kg | 200 6/27/2017 4:36:37 AM | 32485   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 23 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW4

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-002
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 120    | 30     | mg/Kg    | 20 | 6/26/2017 2:20:15 PM | A 32485 |
| Nitrogen, Nitrate (As N) | 1.9    | 0.30   | mg/Kg    | 1  | 6/26/2017 1:43:01 PM | A 32485 |
| Sulfate                  | 5800   | 75     | mg/Kg    | 50 | 6/27/2017 4:49:02 AM | A 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 2 of 23 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit

% Recovery outside of range due to dilution or matrix

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW5

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-003
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analys               | st: MRA |
| Chloride                 | 1000   | 30     | mg/Kg    | 20 | 6/26/2017 2:45:04 PM | 32485   |
| Nitrogen, Nitrate (As N) | 2.3    | 1.5    | mg/Kg    | 5  | 6/26/2017 2:32:40 PM | 32485   |
| Sulfate                  | 5400   | 75     | mg/Kg    | 50 | 6/27/2017 5:01:27 AM | 32485   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

PQL Practical Quanitative Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 3 of 23

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW6

**CLIENT:** Souder, Miller & Associates **Project:** Matador Paul 2nd Collection Date: 6/12/2017 10:30:00 AM

Lab ID: 1706A44-004 Matrix: SOIL Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 19     | 7.5    | mg/Kg    | 5  | 6/26/2017 2:57:28 PM | A 32485 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5  | 6/26/2017 2:57:28 PM | A 32485 |
| Sulfate                  | 5300   | 75     | mg/Kg    | 50 | 6/27/2017 5:13:52 AM | A 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

> Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Е Value above quantitation range

Analyte detected below quantitation limits Page 4 of 23 J

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW7

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-005
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 15     | 7.5    | mg/Kg    | 5  | 6/26/2017 3:22:16 PM | A 32485 |
| Nitrogen, Nitrate (As N) | 1.7    | 1.5    | mg/Kg    | 5  | 6/26/2017 3:22:16 PM | A 32485 |
| Sulfate                  | 5100   | 75     | mg/Kg    | 50 | 6/27/2017 5:26:17 AM | A 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab ID:

**CLIENT:** Souder, Miller & Associates

1706A44-006

**Analytical Report** Lab Order 1706A44

Date Reported: 6/30/2017

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW8

**Project:** Matador Paul 2nd Matrix: SOIL

Collection Date: 6/12/2017 10:30:00 AM Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 1200   | 75     | mg/Kg    | 50 | 6/27/2017 5:38:41 AM | M 32485 |
| Nitrogen, Nitrate (As N) | 1.9    | 1.5    | mg/Kg    | 5  | 6/26/2017 4:11:55 PI | M 32485 |
| Sulfate                  | 5100   | 75     | mg/Kg    | 50 | 6/27/2017 5:38:41 AM | M 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 23 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW9

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-007
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 140    | 7.5    | mg/Kg    | 5  | 6/26/2017 4:36:44 PM | M 32485 |
| Nitrogen, Nitrate (As N) | 2.8    | 1.5    | mg/Kg    | 5  | 6/26/2017 4:36:44 PM | M 32485 |
| Sulfate                  | 5100   | 75     | mg/Kg    | 50 | 6/27/2017 5:51:06 AM | M 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**CLIENT:** Souder, Miller & Associates

Analytical Report
Lab Order 1706A44

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW11

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-008
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

**Analyses** Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: MRA 6/26/2017 5:01:33 PM Chloride 87 7.5 mg/Kg 5 32485 Nitrogen, Nitrate (As N) 3.1 1.5 mg/Kg 6/26/2017 5:01:33 PM 32485 Sulfate 5300 75 mg/Kg 6/27/2017 6:03:30 AM 32485

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**CLIENT:** Souder, Miller & Associates

# **Analytical Report**Lab Order **1706A44**

Date Reported: 6/30/2017

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH 2-3

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-009
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF  | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|-----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |     | Analy                | st: MRA |
| Chloride                 | 3000   | 150    | mg/Kg    | 100 | 6/27/2017 6:15:54 AM | M 32485 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5   | 6/26/2017 5:26:23 PM | M 32485 |
| Sulfate                  | 4100   | 150    | mg/Kg    | 100 | 6/27/2017 6:15:54 AM | M 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH 2-5.5

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-010
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF  | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|-----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |     | Analy                | st: MRA |
| Chloride                 | 2100   | 150    | mg/Kg    | 100 | 6/27/2017 6:28:19 Al | M 32485 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5   | 6/26/2017 5:51:13 PI | M 32485 |
| Sulfate                  | 7500   | 150    | mg/Kg    | 100 | 6/27/2017 6:28:19 Al | M 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BH 2-10

**Project:** Matador Paul 2nd Collection Date: 6/12/2017 10:30:00 AM Matrix: SOIL Lab ID: 1706A44-011 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed        | Batch    |
|--------------------------|--------|--------|----------|-------------------------|----------|
| EPA METHOD 300.0: ANIONS |        |        |          | Anal                    | yst: MRA |
| Chloride                 | 1200   | 150    | mg/Kg    | 100 6/27/2017 9:08:03 A | M 32485  |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5 6/26/2017 6:40:51 P   | M 32485  |
| Sulfate                  | 6300   | 150    | mg/Kg    | 100 6/27/2017 9:08:03 A | M 32485  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 11 of 23 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BH 4-1.5

**Project:** Matador Paul 2nd Collection Date: 6/12/2017 10:30:00 AM Lab ID: 1706A44-012 Matrix: SOIL Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 300    | 7.5    | mg/Kg    | 5  | 6/26/2017 7:05:40 PM | A 32485 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5  | 6/26/2017 7:05:40 PM | A 32485 |
| Sulfate                  | 5600   | 75     | mg/Kg    | 50 | 6/27/2017 9:20:27 AM | Л 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 12 of 23 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates **Client Sample ID:** BGC-S

**Project:** Matador Paul 2nd Collection Date: 6/12/2017 10:45:00 AM Lab ID: 1706A44-013 Matrix: SOIL Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 24     | 7.5    | mg/Kg    | 5  | 6/26/2017 7:30:29 PM | M 32485 |
| Nitrogen, Nitrate (As N) | 6.3    | 1.5    | mg/Kg    | 5  | 6/26/2017 7:30:29 PM | M 32485 |
| Sulfate                  | 4800   | 75     | mg/Kg    | 50 | 6/27/2017 9:32:52 Al | M 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 13 of 23 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-1

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-014
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF  | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|-----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |     | Analy                | st: MRA |
| Chloride                 | 1000   | 30     | mg/Kg    | 20  | 6/26/2017 8:07:43 PM | 1 32485 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5   | 6/26/2017 7:55:18 PN | 1 32485 |
| Sulfate                  | 7700   | 150    | mg/Kg    | 100 | 6/27/2017 9:45:17 AN | 1 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 14 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-2

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-015
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed         | Batch   |
|--------------------------|--------|--------|----------|--------------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          | Analy                    | st: MRA |
| Chloride                 | 3200   | 150    | mg/Kg    | 100 6/27/2017 9:57:41 AM | 1 32503 |
| Nitrogen, Nitrate (As N) | 1.5    | 1.5    | mg/Kg    | 5 6/26/2017 9:09:47 PM   | 1 32503 |
| Sulfate                  | 10000  | 150    | mg/Kg    | 100 6/27/2017 9:57:41 AM | 1 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 15 of 23

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BGC-3

**Project:** Matador Paul 2nd Collection Date: 6/12/2017 10:45:00 AM Lab ID: 1706A44-016 Matrix: SOIL Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF  | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|-----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |     | Analy                | st: MRA |
| Chloride                 | 4800   | 300    | mg/Kg    | 200 | 6/27/2017 10:10:05 A | M 32503 |
| Nitrogen, Nitrate (As N) | 1.6    | 1.5    | mg/Kg    | 5   | 6/26/2017 9:59:26 PI | M 32503 |
| Sulfate                  | 7800   | 300    | mg/Kg    | 200 | 6/27/2017 10:10:05 A | M 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 16 of 23 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-4

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-017
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed         | Batch    |
|--------------------------|--------|--------|----------|--------------------------|----------|
| EPA METHOD 300.0: ANIONS |        |        |          | Analy                    | /st: MRA |
| Chloride                 | 4800   | 150    | mg/Kg    | 100 6/27/2017 10:22:30 A | AM 32503 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5 6/26/2017 10:24:16 F   | PM 32503 |
| Sulfate                  | 9500   | 150    | mg/Kg    | 100 6/27/2017 10:22:30 A | AM 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 17 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BGC-6

**Project:** Matador Paul 2nd Collection Date: 6/12/2017 10:45:00 AM Lab ID: 1706A44-018 Matrix: SOIL Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed       | Batch      |
|--------------------------|--------|--------|----------|------------------------|------------|
| EPA METHOD 300.0: ANIONS |        |        |          | Ana                    | alyst: MRA |
| Chloride                 | 3500   | 150    | mg/Kg    | 100 6/27/2017 10:34:55 | 5 AM 32503 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5 6/26/2017 10:49:05   | 5 PM 32503 |
| Sulfate                  | 5300   | 150    | mg/Kg    | 100 6/27/2017 10:34:55 | 5 AM 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 18 of 23 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Client Sample ID: BGC-8

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-019
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed         | Batch   |
|--------------------------|--------|--------|----------|--------------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          | Analy                    | st: MRA |
| Chloride                 | 2400   | 150    | mg/Kg    | 100 6/27/2017 10:47:20 A | M 32503 |
| Nitrogen, Nitrate (As N) | 1.6    | 1.5    | mg/Kg    | 5 6/26/2017 11:38:45 P   | M 32503 |
| Sulfate                  | 8300   | 150    | mg/Kg    | 100 6/27/2017 10:47:20 A | M 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 19 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-10

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-020
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed         | Batch    |
|--------------------------|--------|--------|----------|--------------------------|----------|
| EPA METHOD 300.0: ANIONS |        |        |          | Analy                    | yst: MRA |
| Chloride                 | 2700   | 150    | mg/Kg    | 100 6/27/2017 10:59:44 / | AM 32503 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5 6/27/2017 12:03:34 /   | AM 32503 |
| Sulfate                  | 7200   | 150    | mg/Kg    | 100 6/27/2017 10:59:44 / | AM 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 20 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-12

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-021
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed         | Batch    |
|--------------------------|--------|--------|----------|--------------------------|----------|
| EPA METHOD 300.0: ANIONS |        |        |          | Analy                    | st: MRA  |
| Chloride                 | 1300   | 150    | mg/Kg    | 100 6/27/2017 11:36:58 A | AM 32503 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5 6/27/2017 12:28:23 A   | AM 32503 |
| Sulfate                  | 7100   | 150    | mg/Kg    | 100 6/27/2017 11:36:58 A | AM 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 21 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### **OC SUMMARY REPORT**

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1706A44** 

30-Jun-17

Client: Souder, Miller & Associates

**Project:** Matador Paul 2nd

Sample ID MB-32485 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 32485 RunNo: 43787

Prep Date: 6/26/2017 Analysis Date: 6/26/2017 SeqNo: 1380561 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Chloride
 ND
 1.5

 Nitrogen, Nitrate (As N)
 ND
 0.30

 Sulfate
 ND
 1.5

Sample ID LCS-32485 SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 32485 RunNo: 43787 Analysis Date: 6/26/2017 SeqNo: 1380562 Prep Date: 6/26/2017 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 91.1 Chloride 14 1.5 15.00 0 90 110

Nitrogen, Nitrate (As N) 7.1 0.30 7.500 0 94.2 90 110 0 93.7 90 Sulfate 28 1.5 30.00 110

Sample ID 1706A44-002AMS SampType: ms TestCode: EPA Method 300.0: Anions

Client ID: SW4 Batch ID: 32485 RunNo: 43787

Prep Date: 6/26/2017 Analysis Date: 6/26/2017 SeqNo: 1380574 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Nitrate (As N) 8.7 0.30 7.500 1.907 90.0 61.8 142

Client ID: **SW4** Batch ID: **32485** RunNo: **43787** 

SampType: msd

Prep Date: 6/26/2017 Analysis Date: 6/26/2017 SeqNo: 1380575 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Nitrogen, Nitrate (As N) 8.6 0.30 7.500 1.907 88.6 61.8 142 1.22 20

Sample ID MB-32503 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 32503 RunNo: 43787

Prep Date: 6/26/2017 Analysis Date: 6/26/2017 SeqNo: 1380605 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Chloride ND 1.5

 Chloride
 ND
 1.5

 Nitrogen, Nitrate (As N)
 ND
 0.30

 Sulfate
 ND
 1.5

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Sample ID 1706A44-002AMSD

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

TestCode: EPA Method 300.0: Anions

E Value above quantitation range

J Analyte detected below quantitation limits

Page 22 of 23

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

#### **QC SUMMARY REPORT**

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1706A44** *30-Jun-17* 

Client: Souder, Miller & Associates

**Project:** Matador Paul 2nd

Sample ID LCS-32503 SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 32503 RunNo: 43787 Analysis Date: 6/26/2017 Prep Date: 6/26/2017 SeqNo: 1380606 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride 93.3 90 14 1.5 15.00 0 110 Nitrogen, Nitrate (As N) 97.5 7.3 0.30 7.500 0 90 110 Sulfate 95.0 90 28 1.5 30.00 0 110

Sample ID 1706A44-015AMS TestCode: EPA Method 300.0: Anions SampType: ms RunNo: 43787 Client ID: BGC-2 Batch ID: 32503 Prep Date: 6/26/2017 Analysis Date: 6/26/2017 SeqNo: 1380610 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Nitrogen, Nitrate (As N) 1.546 88.5 61.8 8.2 1.5 7.500 142

Sample ID 1706A44-015AMSD SampType: msd TestCode: EPA Method 300.0: Anions Client ID: BGC-2 Batch ID: 32503 RunNo: 43787 Prep Date: 6/26/2017 Analysis Date: 6/26/2017 SeqNo: 1380611 Units: mg/Kg **RPDLimit** %REC %RPD Analyte SPK value SPK Ref Val LowLimit HighLimit Qual

87.7

61.8

0.768

20

1.546

7.500

#### Qualifiers:

Nitrogen, Nitrate (As N)

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

## Sample Log-In Check List

| Client Name:               | SMA-CARLSBAD                                              | Work Order Numl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | per: 1706A44   |                  | RcptNo: 1                                  | <del></del>   |
|----------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------|--------------------------------------------|---------------|
| Received By:               | Sophia Campuzano                                          | 6/20/2017 10:15:00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | АМ             | Josephie Gregor- | nat                                        |               |
| Completed By:              | Richie Eriacho                                            | 6/20/2017 10:54:47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | АМ             | 12-2             | e.                                         |               |
| Reviewed By:               | Re las                                                    | 6/20/17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                  | · · · · · · · · · · · · · · · · · · ·      |               |
| Chain of Cus               | stody                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                  |                                            |               |
| 1. Custody sea             | als intact on sample bottles?                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes 🗌          | No 🗌             | Not Present 🗹                              |               |
| 2. Is Chain of             | Custody complete?                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes 🗹          | No 🗌             | Not Present                                |               |
| 3. How was th              | e sample delivered?                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u>Courier</u> |                  |                                            |               |
| <u>Log In</u>              |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                  |                                            |               |
| 4. Was an atte             | empt made to cool the samp                                | les?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Yes 🗹          | No 🗌             | na 🗆                                       |               |
| 5. Were all sa             | mples received at a tempera                               | ture of >0° C to 6.0°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Yes 🗹          | No 🗌             | na 🗆                                       |               |
| 6. Sample(s) i             | in proper container(s)?                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes 🗹          | No .             |                                            |               |
| 7, Sufficient sa           | ample volume for indicated to                             | est(s)?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Yes 🗹          | No 🗌             |                                            |               |
| 8. Are sample:             | s (except VOA and ONG) pro                                | operly preserved?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Yes 🗹          | No 🗌             |                                            |               |
| 9. Was preser              | vative added to bottles?                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes 🗌          | No 🗹             | NA 🗆                                       |               |
| 10.VOA vials h             | ave zero headspace?                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes 🗌          | No 🗆             | No VOA Vials 🗹                             |               |
| 11. Were any s             | sample containers received b                              | roken?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Yes 🗌          | No 🗹             | # of preserved                             |               |
|                            | work match bottle labels?<br>epancies on chain of custody | )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Yes 🗸          | No 🗆             | bottles checked<br>for pH:<br>(<2 or >12 t | ınless noted) |
| 13. Are matrice            | s correctly identified on Chai                            | n of Custody?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Yes 🗹          | No 🗌             | Adjusted?                                  |               |
|                            | hat analyses were requested                               | ?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Yes 🔽          | No 🗌             |                                            |               |
|                            | Iding times able to be met?  customer for authorization.) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes 🗸          | No ∐             | Checked by:                                |               |
| Special Hand               | dling (if applicable)                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                  |                                            |               |
| 16. Was client r           | notified of all discrepancies v                           | vith this order?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Yes 🗌          | No 🗆             | NA 🗹                                       |               |
| Perso                      | n Notified:                                               | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <del>2</del> : |                  |                                            |               |
| By Wi                      | ***************************************                   | Via:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | eMail P        | hone 🗌 Fax       | ☐ In Person                                |               |
| Regar                      | <u></u>                                                   | ······································                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |                  | •                                          |               |
| Client<br>17. Additional r | Instructions:                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                  |                                            |               |
|                            |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                  |                                            |               |
| 18. Cooler Info            |                                                           | Spalintost   Coal No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sant Data      | Signed Du        |                                            |               |
| Cooler N                   | No Temp °C Condition 6.0 Good                             | Seal Intact   Seal No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Seal Date      | Signed By        |                                            |               |
| Page 1 c                   | nfl                                                       | una un compresso de la compression de la compresso de la compr |                |                  |                                            |               |

Received by OCD: 9/18/2024 9:56:21 AM Page 634 of 874 Air Bubbles (Y or N) ANALYSIS LABORATORY HALL ENVIRONMENTAL mined to Hall Environmental may be subcontracted to other accredited taboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly rotated on the analytical report. 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 (AOV-ima2) 07S8 www.hallenvironmental.com **Analysis Request** 8081 Pesticides / 8082 PCB's CINO3/103/103/EOTEOT RCRA 8 Metals Tel. 505-345-3975 (SMIS 0728 to 0168) 2'HA9 EDB (Method 504 1) (1.814 bortteM) H9T (ORM \ ORG \ ORG) BE108 H91 Remarks BTEX + MTBE + TPH (Gas only) BTEX + MTBE + TMB's (8021) 130 SRUSH 5 day (Matador) -012 06/20/17 1015 1000 1001 580 -007 2007 010-1984%中 1000 1007 1003 10-Time 8 HEAL NO. Matador: Paw 2nd ON U Austin Medart Sample Temperature: ( o. 0 Preservative N Yes Turn-Around Time: Sampler: LCM Project Manager Project Name: □ Standard Type and # Container 1002 10K Project # On loe: Receive ☐ Level 4 (Full Validation) Sample Request ID Chain-of-Custody Record 155 BH 2-3 PH-19 BH2-10 SAMA - COUNSHAD (M) SWB SEB SW 9 SW2 JWY 3 N Relinquished by □ Other Matrix Relinquish 100 Chain-Chain-Chain-Chain-Chained Chained Address: 1900 DA/QC Package: Time 10.30 HI 10.30 C EDD (Type) email or Fax# Accreditation ше □ Standard O NELAP hone #: Dale Date b

| leased t           | SMA              | - Cay            | Chain-of-Custody Record     | urn-Around Time: ☐ Standard | Ilme.  Ø Rush           | W Rush 5 day (natadar)      |                                     | Î                 | ALL                     | VNE              | IRON                                    | HALL ENVIRONMENTAL | 7 |
|--------------------|------------------|------------------|-----------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------------------|-------------------|-------------------------|------------------|-----------------------------------------|--------------------|---|
| to Im              |                  |                  |                             | Project Name:               | 1                       |                             |                                     | . 3               | alled ww                | CTO              | www.hallenvironmental.com               | 5                  | 5 |
| Maging             | Mailing Address; | 18               |                             | Marado                      | 105 : Pa                | r: Paul 2nd.                | 4901                                | 4901 Hawkins NE   | 5 1                     | Ipndneu          | Albuquerque, NM 87109                   | 87109              |   |
| r: 10              |                  |                  |                             | Project #.                  |                         |                             | Tel.                                | Tel. 505-345-3975 |                         | Fax 50           | Fax 505-345-4107                        | 201                |   |
| # euoud /1/2       | #                |                  |                             |                             |                         |                             |                                     |                   | Anz                     | Analysis Request | equest                                  |                    |   |
| #20 email or Fax#: | r Fax#:          |                  |                             | Project Manager:            | ger                     |                             | (K)ı                                | 7                 |                         | C                |                                         |                    |   |
| 11: OA/GC Packa    | OA/GC Package:   |                  | ☐ Level 4 (Full Validation) | Austin                      | in Weyan                | wh                          | io seĐ)                             |                   | (SWI                    | -                | PCB's                                   |                    |   |
| Accreditation      | itation          |                  |                             | Sampler:                    | LCM J                   |                             | Hd.                                 | (1                |                         |                  | 2808                                    |                    |   |
| W [] NELAP         | AP               | □ Other          | 1,1                         | On Ice:                     | XYes                    | □ No                        | 1 +                                 | .81               | 28                      | 1"6              |                                         | (v                 |   |
| □ EDD (Type)       | (Type)           |                  |                             | Sample Temp                 | Sample Temperature: 6.0 |                             | 38.                                 | þ þo              | 10 0                    | 1/00             | ()                                      | 0.4-               |   |
| Date               | Time             | Matrix           | Sample Request ID           | Container<br>Type and #     | Preservative<br>Type    | HEAL NO.                    | TM + X3T8<br>TM + X3T8<br>82108 H9T | TPH (Metho        | PAH's (831<br>RCRA 8 Me | O.4) anoinA      | 8081 Pestic<br>(VO) 80828<br>8220 (Semi | imə2) (758         |   |
| Nelalia            | 10:45            | [10]             | . S-2-58                    | UB I W                      |                         | 100- 519-                   |                                     |                   |                         | _                |                                         |                    |   |
|                    | Ų.               |                  | BGC-1                       |                             |                         | -014 -04£                   |                                     |                   |                         | 1                |                                         |                    |   |
|                    |                  |                  | BGC-2                       |                             |                         | -015 -063                   |                                     |                   |                         | 1                |                                         |                    |   |
|                    |                  | +5               | B4C - 3                     |                             |                         | HO- 910-                    |                                     |                   |                         | 1                |                                         |                    |   |
|                    |                  |                  | BGC - 4                     |                             |                         | -017 -005                   |                                     |                   |                         | /                |                                         |                    |   |
|                    |                  |                  | 265- 6                      |                             |                         | -018 -cot                   |                                     |                   |                         | 2                |                                         |                    |   |
|                    |                  | -                | 66C-8                       |                             |                         | -019 - <del>103</del>       |                                     |                   |                         | 1                |                                         |                    |   |
|                    |                  |                  | 156C 10                     |                             |                         | -010-068                    |                                     |                   |                         | 2                |                                         |                    |   |
| -                  | <del>-&gt;</del> | 7                | MgC-12                      | 4                           |                         | 100-120-                    |                                     |                   |                         | 1                |                                         |                    |   |
|                    |                  |                  |                             |                             |                         |                             |                                     |                   |                         |                  |                                         |                    |   |
|                    |                  |                  |                             |                             |                         |                             |                                     |                   |                         |                  |                                         |                    |   |
| Date:              | Time             | Relinquished by: | ac by:                      | Received by:                | 1                       | MIGHT OYOU                  | Remarks:                            |                   |                         |                  |                                         |                    |   |
| Date:              | Time:            | Relinging        | hed by                      | Receiped by:                | 4                       | Date Time<br>CL /20/17 1015 |                                     |                   |                         |                  |                                         |                    |   |

#### **Bratcher, Mike, EMNRD**

**From:** Bratcher, Mike, EMNRD

Sent: Thursday, October 12, 2017 11:06 AM

To: Lucas Middleton

Csnow (Csnow@matadorresources.com); Weaver, Crystal, EMNRD

Subject: RE: FINAL CLOSURE REPORT FOR INCIDENT 2RP-4113, Paul 25 24S 28E RB #221H, UNIT D SECTION

25-T24S-R28E NMPM, API# 30-015-43018, EDDY COUNTY, NEW MEXICO

RE: Matador Resources \* Paul 25 24S 28E RB 221H \* 2RP-4113 \* DOR: 2/3/17

Lucas,

Your request for closure of the above referenced release is approved.

Thank you,

Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210 575-748-1283 Ext 108

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Lucas Middleton [mailto:lucas.middleton@soudermiller.com]

Sent: Tuesday, July 18, 2017 9:14 AM

To: Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>

Cc: Csnow (Csnow@matadorresources.com) < Csnow@matadorresources.com>; Weaver, Crystal, EMNRD

<Crystal.Weaver@state.nm.us>

Subject: FINAL CLOSURE REPORT FOR INCIDENT 2RP-4113, Paul 25 24S 28E RB #221H, UNIT D SECTION 25-T24S-R28E

NMPM, API# 30-015-43018, EDDY COUNTY, NEW MEXICO

Mike Bratcher,

Oh behalf of Matador Resources I am requesting an approved closure for INCIDENT 2RP- 4113, Paul 25 24S 28E RB #221H, UNIT D SECTION 25-T24S-R28E NMPM, API# 30-015-43018. I have attached a final closure report to this email.

Lucas Middleton Staff Scientist (575) 689-5351 (mobile)



| Souder, Miller & Associates             |
|-----------------------------------------|
| Engineering ☐ Environmental ☐ Surveying |
| 201 S. Halagueno                        |
| Carlsbad, NM 88220                      |
| www.soudermiller.com                    |

Notice of Confidentiality and Privileged Status: This electronic mail message, including all attachments, is for the sole use of the intended recipient(s) and may contain confidential and/or privileged information or otherwise may be protected from disclosure. Any unauthorized review, use, disclosure, distribution or actions which rely on the contents of this information is prohibited. If you are not the intended recipient, please contact the sender and delete the message and any attachment(s) from your system.

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Received by OCD: 9/18/2024 9:56:21 AM

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 S. First St., Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

District IV

District IV

State of New Mexico

**Energy Minerals and Natural Resources** 

Oil Conservation Division 1220 South St. Francis Dr.

Page 638 of 874

Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Received 7/18/2017

NMOCD Dist 2

| 1220 S. St. Fran                                                | ncis Dr., Sant                                             | a Fe, NM 8750:                              | 5                                                   | Sa                                                                  | anta l                        | Fe, NM 875                                                        | 05                                                                                          |                                     |                                            |                                              |                                |                                      |  |  |
|-----------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------|----------------------------------------------|--------------------------------|--------------------------------------|--|--|
|                                                                 |                                                            |                                             | Rel                                                 | ease Notific                                                        | catio                         | on and Co                                                         | rrective A                                                                                  | ction                               |                                            |                                              |                                |                                      |  |  |
| nAB17043                                                        | 68889                                                      |                                             |                                                     |                                                                     |                               | <b>OPERA</b>                                                      | ГOR                                                                                         |                                     | ☐ Initia                                   | al Report                                    | X                              | Final Repor                          |  |  |
|                                                                 | Name of Company Matador Resources Company                  |                                             |                                                     |                                                                     |                               |                                                                   | Contact Catherine Green                                                                     |                                     |                                            |                                              |                                |                                      |  |  |
|                                                                 | Address 500 N Main St Ste One Roswell NM 88201             |                                             |                                                     |                                                                     |                               |                                                                   | No.575-623-660                                                                              | 1                                   |                                            |                                              |                                |                                      |  |  |
|                                                                 |                                                            | 5 24S 28E R                                 |                                                     |                                                                     |                               | Facility Typ                                                      |                                                                                             |                                     |                                            |                                              |                                |                                      |  |  |
|                                                                 |                                                            |                                             |                                                     |                                                                     |                               |                                                                   |                                                                                             |                                     | 1                                          |                                              |                                |                                      |  |  |
| Surface Ow                                                      | ner Fee                                                    |                                             |                                                     | Mineral (                                                           | Owner                         | Fee                                                               |                                                                                             |                                     | API No                                     | .30-015-43                                   | 3018                           |                                      |  |  |
|                                                                 |                                                            |                                             |                                                     |                                                                     | -2                            | ON OF RE                                                          |                                                                                             | ,                                   |                                            |                                              |                                |                                      |  |  |
| Unit Letter<br>D                                                | Section 25                                                 | Township<br>24S                             | Range<br>28E                                        | Feet from the 359                                                   | Nort<br>N                     | North/South Line   Feet from the   East/West Line   County   Eddy |                                                                                             |                                     |                                            |                                              |                                |                                      |  |  |
|                                                                 |                                                            | Latitu                                      | ide_32.1                                            | 94817                                                               |                               | Longitude                                                         | -104.0487226                                                                                | ,                                   |                                            |                                              |                                |                                      |  |  |
|                                                                 |                                                            |                                             |                                                     | NAT                                                                 | <b>TURI</b>                   | E OF REL                                                          | EASE                                                                                        |                                     |                                            |                                              |                                |                                      |  |  |
| Type of Rele                                                    |                                                            |                                             |                                                     |                                                                     |                               |                                                                   | Release ~100BB                                                                              |                                     |                                            | Recovered 8                                  |                                |                                      |  |  |
| Source of Re                                                    | elease pipeli                                              | ne                                          |                                                     |                                                                     |                               | Date and Hour of Occurrence Feb Date and Hour of 7:30am           |                                                                                             |                                     |                                            |                                              | covery                         | Feb 3, 2017                          |  |  |
| Was Immedi                                                      | nta Motios (                                               | Given?                                      |                                                     |                                                                     |                               | If YES, To                                                        |                                                                                             |                                     | 7:30am                                     |                                              |                                |                                      |  |  |
| Required                                                        | ate Notice v                                               | _                                           | Yes [                                               | □ No □ Not                                                          |                               |                                                                   | eaver, voicemail                                                                            |                                     |                                            |                                              |                                |                                      |  |  |
| By Whom?                                                        | Catherine G                                                | reen                                        |                                                     |                                                                     |                               | Date and Hour Feb. 3 2017 12:07pm                                 |                                                                                             |                                     |                                            |                                              |                                |                                      |  |  |
| Was a Water                                                     |                                                            | ched?                                       | Yes x                                               | ☐ No                                                                |                               | If YES, Vo                                                        | olume Impacting t                                                                           | the Wate                            | ercourse.                                  |                                              |                                |                                      |  |  |
| If a Waterco                                                    | urse was Im                                                | pacted, Descr                               | ibe Fully.                                          | *                                                                   |                               | - L                                                               |                                                                                             |                                     |                                            |                                              |                                |                                      |  |  |
| Water recycl<br>Down Valve<br>Well shut in                      | ing facility<br>had failed to<br>to isolate lin            | to close. Leas<br>ne, vacuum tru            | on Emerge<br>e operator<br>ick called               | ency Shut Down. It drove right of was. Excavator dug of             | ay to T<br>down a             | iger and found<br>t spill sight, loo                              | o Paul location the<br>produced water of<br>cated pipe with he<br>ced Shut Down V           | n groun<br>de it in.                | d at (~32°1<br>Crew repl                   | 1'52", 104°                                  | 2'55".                         | 179999).                             |  |  |
|                                                                 |                                                            | and Cleanup A<br>uare yards of              |                                                     | ken.*<br>npacted. Remove                                            | and rep                       | place impacted                                                    | soil.                                                                                       |                                     |                                            |                                              |                                |                                      |  |  |
| regulations a<br>public health<br>should their<br>or the enviro | Il operators<br>or the envi<br>operations h<br>nment. In a | are required to ronment. The nave failed to | o report as<br>acceptant<br>adequately<br>OCD accep | nd/or file certain a<br>ce of a C-141 report<br>y investigate and a | release<br>ort by t<br>remedi | notifications at<br>the NMOCD mate contamination                  | knowledge and und perform correctarked as "Final Right to that pose a three the operator of | ctive acti<br>eport" d<br>eat to gr | ions for rel<br>loes not rel<br>ound water | eases which<br>leve the ope<br>r, surface wa | may er<br>rator of<br>ater, hu | ndanger<br>f liability<br>man health |  |  |
|                                                                 |                                                            |                                             |                                                     | 0                                                                   |                               |                                                                   | OIL CON                                                                                     | SERV                                | ATION                                      | DIVISIO                                      | N                              |                                      |  |  |
| Signature: 6                                                    | Printed Name: Catherine Green CASLY SNUV                   |                                             |                                                     |                                                                     |                               | Approved by Environmental Specialist:                             |                                                                                             |                                     |                                            |                                              |                                |                                      |  |  |
|                                                                 |                                                            | M MANA                                      |                                                     | Res                                                                 |                               | Approval Da                                                       | te: 10/12/17                                                                                |                                     | Expiration                                 | Date: N/A                                    |                                |                                      |  |  |
|                                                                 | CSNO                                                       |                                             | ırces.com                                           | 2 77/ 6                                                             |                               | 114.5                                                             | f Approval: N/A                                                                             |                                     |                                            | Attached                                     |                                |                                      |  |  |
| Data: Fabric                                                    | 2017 7J                                                    | 18-17 Pho                                   | 97                                                  | 2, 371, 54                                                          | 37                            | FIN                                                               | AL                                                                                          |                                     |                                            |                                              | _                              |                                      |  |  |

Form C-141

Revised August 8, 2011

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico NM OIL CONSERVATION

Energy Minerals and Natural Resources RTESIA DISTRICT

DEC 2 bmtd 16 opy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505 RECEIVED Release Notification and Corrective Action NAB1700438103 OPERATOR x Initial Report Final Report Name of Company Matador Resources 228937 Contact Catherine Green Address 500 N Main St Ste One Roswell NM 88201 Telephone No. 575-623-6601 Facility Name Paul 25 24S 28E RB 221H Facility Type Production Battery Surface Owner Fee Mineral Owner Fee API No.30-015-43018 LOCATION OF RELEASE Feet from the Unit Letter Section Township Range North/South Line Feet from the East/West Line County D 25 **24S** 28E 359 **FNL** 217 **FWL** Eddy **Latitude32.19484171 Longitude** -104.0487226 **NATURE OF RELEASE** Type of Release Oil Volume of Release~40BBLs Volume Recovered ~2BBLs Source of Release Hauler left thief hatch open on oil tank Date and Hour of Occurrence Dec Date and Hour of Discovery Dec 25 2016 25 2016 8:00am 8:30am Was Immediate Notice Given? x Yes No Not Required If YES, To Whom? Telephoned Artesia NMOCD hotline. Left message By Whom? Jason Thibodeaux Date and Hour Dec 25 2016 8:45 sm Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes x☐ No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken.\* Oil Hauler did not properly close hatch. Lease operator discovered open hatch, closed it, called for vacuum truck to vacuum up excess fluid on production pad. Describe Area Affected and Cleanup Action Taken.\* Oil spilled on ground. Soil will be sampled for contaminants. Contaminated soil will be removed and replaced. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Catherine Green Approved by Environmental Specialist Printed Name: Catherine Green Approval Date: Title: Regulatory Analyst Conditions of Approval: E-mail Address:cgreen@matadorresources.com

\* Attach Additional Sheets If Necessary

Phone:575-627-2453

Date: Dec. 25,2016

Operator/Responsible Party,

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 2/3/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
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- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

#### Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

#### Weaver, Crystal, EMNRD

From: Catherine Green < CGreen@matadorresources.com>

Sent: Wednesday, December 28, 2016 11:23 AM

To: Weaver, Crystal, EMNRD

**Subject:** Fwd: Document

Attachments: Paul Spill C141 Dec 25 2016.doc

Crystal,

I hope this is on one page!

Catherine

Begin forwarded message:

>

>

This transmission is strictly confidential. If you are not the intended recipient of this message, you may not disclose, print, copy or disseminate this information. If you have received this in error, please reply and notify the sender (only) and delete the message. Unauthorized interception of this e-mail is a violation of federal criminal law. This communication does not reflect an intention by the sender or the sender's client or principal to conduct a transaction or make any agreement by electronic means. Nothing contained in this message or in any attachment shall satisfy the requirements for a writing, and nothing contained herein shall constitute a contract or electronic signature under the Electronic Signatures in Global and National Commerce Act, any version of the Uniform Electronic Transactions Act or any other statute governing electronic transactions.

Form C-141

Revised August 8, 2011

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico NM OIL CONSERVATION Energy Minerals and Natural Resources ARTESIA DISTRICT

DEC Submittle Copy to appropriate District Office in

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

accordance with 19.15.29 NMAC.

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\* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 12/28/16 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number ARP-405 has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

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for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

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Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

#### Weaver, Crystal, EMNRD

From: Catherine Green < CGreen@matadorresources.com>

Sent: Wednesday, December 28, 2016 11:23 AM

**To:** Weaver, Crystal, EMNRD

**Subject:** Fwd: Document

Attachments: Paul Spill C141 Dec 25 2016.doc

Crystal,

I hope this is on one page!

Catherine

Begin forwarded message:

>

>

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District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

#### NM OIL CONSERVATION

State of New Mexico
Energy Minerals and Natural Resources

ARTESIA DISTRICT
MAR 2 1 2017

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 MAR 2 1 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

|                                                                              |               |                  | Dat         |                                          |             | , run ors      |                      | a4i       |               |               |           |              |
|------------------------------------------------------------------------------|---------------|------------------|-------------|------------------------------------------|-------------|----------------|----------------------|-----------|---------------|---------------|-----------|--------------|
| 0.40                                                                         |               |                  | Kel         | ease Notific                             | cation      | and Co         | orrective A          | ction     | AMEN          | IDED*         |           |              |
|                                                                              | 7088          |                  |             |                                          |             | <u>OPERAT</u>  |                      | x         | . Initi       | al Report     |           | Final Report |
| Name of Co                                                                   |               |                  |             | 228437                                   |             |                | herine Green         |           |               |               |           |              |
| Address 500                                                                  |               |                  |             | M 88201                                  |             |                | No. 575-623-660      |           |               |               |           |              |
| Facility Nar                                                                 | ne Paul 25    | 24S 28E R        | B 221H      |                                          | 1           | Facility Typ   | e Production Ba      | ittery    |               |               |           |              |
| Surface Ow                                                                   | ner Fee       |                  |             | Mineral C                                | )wner F     | ee             |                      |           | API No        | .30-015-43    | 018       |              |
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| Unit Letter                                                                  | Section       | Township         | Range       | Feet from the                            |             | South Line     | Feet from the        | East/W    | Vest Line     | County        |           |              |
| D                                                                            | 25            | 24S              | 28E         | 359                                      | FNL         |                | 217                  | FWL       |               | Eddy          |           | Ì            |
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| Type of Rele                                                                 | ase Oil       |                  |             |                                          | CILI        |                | Release~5BBLs        | *         | Volume I      | Recovered ~   | 2BBLs     |              |
| Source of Re                                                                 |               | er left thief ha | tch open o  | on oil tank                              |             |                | lour of Occurrence   | e Dec     |               |               |           | Dec 25 2016  |
|                                                                              |               |                  |             |                                          |             | 25 2016 8:     |                      |           | 8:30am        |               |           |              |
| Was Immedia                                                                  | ate Notice (  | Given? x□        | Yes [       | ] No ☐ Not R                             | equired     | If YES, To     | Whom?Telephor        | ned Arte  | sia NMOC      | D hotline. L  | eft me    | ssage        |
| By Whom? J.                                                                  | ason Thibo    | deaux            |             |                                          |             | Date and F     | lour Dec 25 2016     | 8:45 sm   | <br>I         |               |           |              |
| Was a Water                                                                  | course Read   | ched?            |             | _                                        |             | If YES, Vo     | olume Impacting t    | he Wate   | rcourse.      |               |           |              |
|                                                                              |               |                  | ] Yes x     | ☐ No                                     |             | }              |                      |           |               |               |           |              |
| If a Watercou                                                                | irse was Im   | pacted, Descr    | ibe Fully.  | *                                        |             | <u> </u>       |                      |           |               | <del></del>   |           |              |
|                                                                              |               |                  |             |                                          |             |                |                      |           |               |               |           | ļ            |
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| Describe Cau                                                                 | se of Probl   | em and Reme      | dial Actio  | n Taken.*                                |             |                |                      |           |               |               |           |              |
| Oil Hauler di                                                                | d not prope   | erly close hatc  | h. Lease    | operator discovere                       | ed open h   | natch, closed  | it, called for vacu  | um trucl  | k to vacuu    | m up excess   | fluid o   | n production |
| pad.                                                                         |               |                  |             |                                          |             |                |                      |           |               |               |           | 1            |
|                                                                              |               |                  |             |                                          |             |                |                      |           |               |               |           | ļ            |
|                                                                              |               |                  |             |                                          |             |                |                      |           |               |               |           | ţ            |
| Describe Are                                                                 | a Affected    | and Cleanup      | Action Ta   | ken.*                                    | -           |                | <del></del>          |           |               |               |           |              |
|                                                                              |               |                  |             | contaminants. Co                         | ntaminat    | ed soil will b | e removed and re     | placed a  | fter work p   | olan is appro | ved.      | ĺ            |
|                                                                              |               |                  |             |                                          |             |                |                      |           |               |               |           |              |
|                                                                              |               |                  |             |                                          |             |                |                      |           |               |               |           |              |
| I hereby certi                                                               | fy that the   | information g    | iven abov   | e is true and comp                       | olete to th | ne best of my  | knowledge and u      | nderstar  | nd that pur   | suant to NM   | OCD r     | ules and     |
| regulations a                                                                | ll operators  | are required (   | to report a | nd/or file certain i                     | release no  | otifications a | nd perform correc    | tive acti | ions for rel  | eases which   | may e     | ndanger      |
| public health                                                                | or the envi   | ronment. The     | acceptan    | ce of a C-141 repo                       | ort by the  | NMOCD m        | arked as "Final R    | eport" d  | oes not rel   | ieve the ope  | rator of  | liability    |
| should their o                                                               | operations h  | nave failed to   | adequately  | y investigate and r<br>ptance of a C-141 | remediate   | e contaminati  | ion that pose a thre | eat to gr | ound wate     | r, surtace wa | iter, hu  | man health   |
|                                                                              |               |                  |             | plance of a C-141                        | report u    | oes not tenev  | e the operator or    | responsi  | bility for C  | omphance v    | vitti air | Other        |
| federal, state, or local laws and/or regulations.  OIL CONSERVATION DIVISION |               |                  |             |                                          |             |                |                      |           |               |               |           |              |
|                                                                              |               |                  |             |                                          | }           |                |                      |           |               |               |           |              |
| Signature: Can                                                               | therine Green |                  |             |                                          |             |                |                      | ضي        | #/ x          | /             |           |              |
| Printed Name                                                                 | e: Catherine  | e Green          |             |                                          |             | Approved by    | Environmental S      | pecians   | 4/4 B         | SAMONIC ME    | -         |              |
|                                                                              |               | ·- ·- ·- ·- ·-   |             |                                          |             |                | te: 3/21/17          | Τ.        |               | Date: N/      | 1         |              |
| Title: Regula                                                                | tory Analy:   | Sŧ               |             |                                          |             |                |                      |           |               |               | 7_        |              |
| E-mail Addre                                                                 | ess:cgreen@   | matadorreso      | urces.com   | l                                        |             | Conditions o   | f Approval: Orla     | aina      | 1 Inite       | al .          | _         |              |
|                                                                              | 33.38.30.11   |                  |             | <del>·</del>                             |             | 1-141 h        | IS COASE             | 1ni+      | al            | Attached      |           |              |
| Date: March                                                                  |               |                  | ne:575-62   | 7-2453                                   |             | Parresi        | it.                  | scar      | ined          | <u> </u>      |           |              |
| Attach Addi                                                                  | tional She    | ets If Necess    | sary        |                                          |             | with'          | it.                  |           |               | 2             | RP-       | 4051         |

From:

Catherine Green

To:

Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD

Cc:

Lucas Middleton

Subject:

Paul Spill C141 Dec 25 2016 (002) Revised March 9 2017

Date:

Thursday, March 9, 2017 10:22:45 AM

Attachments:

Paul Spill C141 Dec 25 2016 (002) Revised March 9 2017.doc

Crystal and Mike,

In January we discussed how to calculate volume of fluid spilled on the ground. Based on that discussion and learning experience please find attached a revised C-141 concerning an incident that occurred on Dec. 25,2016 on Matador's Paul well production pad.

Thank you for your assistance in updating this C-141,

Catherine Green Regulatory Analyst 575-627-2453-Office 720-220-7482-Mobile

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From:

Weaver, Crystal, EMNRD

To:

"Catherine Green"; Bratcher, Mike, EMNRD

Cc:

Lucas Middleton

Subject:

RE: Paul Spill C141 Dec 25 2016 (002) Revised March 9 2017

Date:

Tuesday, March 21, 2017 12:17:00 PM

Attachments:

3.AMMENDED Initial C-141.pdf

Hello Catherine.

I have attached the amended Initial C-141 which I signed and updated in the system.

If you have any further questions please let us know.

Sincerely,

# **Crystal Weaver**

**Environmental Specialist** 

OCD - Artesia District II

811 S. 1st Street

Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963 Fax: 575-748-9720

**From:** Catherine Green [mailto:CGreen@matadorresources.com]

**Sent:** Thursday, March 9, 2017 10:23 AM

To: Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>

Cc: Lucas Middleton < lucas.middleton@soudermiller.com>

**Subject:** Paul Spill C141 Dec 25 2016 (002) Revised March 9 2017

Crystal and Mike,

In January we discussed how to calculate volume of fluid spilled on the ground. Based on that discussion and learning experience please find attached a revised C-141 concerning an incident that occurred on Dec. 25,2016 on Matador's Paul well production pad.

Thank you for your assistance in updating this C-141,

Catherine Green

Regulatory Analyst 575-627-2453-Office 720-220-7482-Mobile

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From: Catherine Green
To: Bratcher, Mike, EMNRD

Subject: Emailing - WORK PLAN FOR INCIDENT 2RP-4051 Paul 25 24S 28E RB 221H API 30-015-4301....pdf

**Date:** Friday, March 31, 2017 3:13:57 PM

Attachments: WORK PLAN FOR INCIDENT 2RP-4051 Paul 25 24S 28E RB 221H API 30-015-4301....pdf

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March 21, 2017

#5B24624-BG33

Crystal Weaver Environmental Specialist NMOCD District II 811 South First St Artesia, NM 88210

SUBJECT: WORK PLAN FOR INCIDENT 2RP-4051, Paul 25 24S 28E RB #221H, UNIT D SECTION 25-T24S-R28E NMPM, API# 30-015-43018, EDDY COUNTY, NEW MEXICO

#### **Dear Crystal Weaver:**

On behalf of Matador Resources Company (Matador), Souder Miller & Associates (SMA) is pleased to submit a work plan summarizing the planned soil remediation for the release site located at the Paul 25 24S 28E RB #221H in Eddy County, New Mexico. The purpose of the work plan is to obtain approval from the New Mexico Oil Conservation Division (NMOCD) for the remediation of the release that occurred on the production pad on December 25, 2016.

SMA responded at the request of Matador Resources Company, to assess and delineate the release of production fluids associated with Paul 25 24S 28E RB #221H well location. The release was initially reported to NMOCD by Matador Resources Company, on December 25, 2016 and was a result of human error. The table below summarizes information regarding the release. Results of the assessment, delineation are described in the following report.

| Table 1: Rele             | ease inform                          | nation and       | Site Rankin       | g             |                       |  |  |  |
|---------------------------|--------------------------------------|------------------|-------------------|---------------|-----------------------|--|--|--|
| Name                      |                                      | Paul 25          | 24S 28E R         | B #221H       |                       |  |  |  |
|                           | Incident<br>Number                   | API<br>Number    | Section           | , Township    | , Range               |  |  |  |
| Location                  | 2RP-<br>4051                         | 30-015-<br>43018 | NW/NE<br>(Unit D) | Section<br>25 | T24S,<br>R28E<br>NMPM |  |  |  |
| Estimated Date of Release | Decembe                              | r 25, 2016       |                   |               |                       |  |  |  |
| Date Reported to NMOCD    | Decembe                              | r 25, 2016,      | March 9, 2        | 2017          |                       |  |  |  |
| Reported by               | Catherine Green                      |                  |                   |               |                       |  |  |  |
| Land Owner                | Private                              |                  |                   |               |                       |  |  |  |
| Reported To               | NM Oil Conservation Division (NMOCD) |                  |                   |               |                       |  |  |  |
| Source of Release         | Human Error                          |                  |                   |               |                       |  |  |  |
| Released Material         | Crude Oil                            |                  |                   |               |                       |  |  |  |
| Released Volume           | ~5 bbls Crude Oil                    |                  |                   |               |                       |  |  |  |
| Recovered Volume          | 2 bbls Cr                            | ude Oil          |                   |               |                       |  |  |  |
| Net Release               | 3 bbls Cr                            | ude Oil          |                   |               |                       |  |  |  |



| Nearest Waterway                                       | 1.4 miles north of the location |
|--------------------------------------------------------|---------------------------------|
| Depth to Groundwater                                   | Estimated to be 39 feet         |
| Nearest Domestic Water<br>Source                       | Greater than 1,000 feet         |
| NMOCD Ranking                                          | 20                              |
| SMA Response Dates                                     | Initial: 12/27/2016             |
| Subcontractors                                         | Diamondback                     |
| Disposal Facility                                      | Lea Land                        |
| Estimated Yd3 Contaminated Soil Excavated and Disposed | 30                              |

A copy of the C-141 Initial is attached in Appendix B. For questions or comments pertaining to the release or the attached work plan, please feel free to contact either of us.

Submitted by:

SOUDER, MILLER & ASSOCIATES

Austin Weyant Project Scientist Reviewed by:

Cynthia Gray, CHMM Senior Scientist

# SOIL REMEDIATION WORK PLAN FOR INCIDENT 2RP-4051

MATADOR RESOURCES COMPANY

PAUL 25 24S 28E RB #221H UL D, SECTION 25, T24S R28E, NMPM API #30-015-43018 EDDY COUNTY, NM



Prepared for: Matador Resources Company PO Box 1933, Roswell, NM 88202 Prepared by: Souder, Miller & Associates 201 S. Halagueno Carlsbad, NM 88221 575-689-7040

> March 21, 2017 SMA Reference 5B24624 BG33

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| 3.0 | Assessment and Initial Results              | 4 |
| 4.0 | Soil Remediation Work Plan                  | 4 |
| 5.0 | Conclusions and Recommendations             | 5 |
| 6.0 | Closure and Limitations                     | 5 |

### Figures:

Figure 1: Vicinity Map

Figure 2: Detailed Site and Sample Location Map

#### Tables:

Table 1: Release Information and Site Ranking

Table 2: Summary Chloride Field Screening Results

Table 3: Summary of Laboratory Analyses

### Appendices:

Appendix A: Laboratory Analytical Reports

Appendix B: Form C141 Initial

#### 1.0 Introduction

On behalf of Matador Resources Company, Souder, Miller & Associates (SMA) has prepared this report that describes the assessment, initial delineation and proposed remediation for a release associated with the Paul 25 24S 28E RB #221H location API# 30-015-43018. The site is in Section 25, Township 24S, Range 28E NMPM, Eddy County, New Mexico, on private property. Figure 1 illustrates the vicinity and location of the site.

#### 2.0 Site Ranking, Land Status, and Jurisdiction

The release site is located approximately 1.3 miles east of the Willow Lake, with an elevation of approximately 2,947 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be 39 feet below ground surface (bgs).

SMA searched the New Mexico State Engineer's Office online water well database for water wells in the vicinity of the release. Two wells are located within a one mile radius of the site. Figure 1 depicts the site vicinity and Figure 2 shows the site itself. The physical location of this release is on private property and is within the jurisdiction of NMOCD.

Based on the NMOCD Guidelines Ranking Criteria, this release location has been assigned an NMOCD ranking of 20 which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm combined benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 100 ppm total petroleum hydrocarbons (TPH). Table 1 illustrates the site ranking rationale.

#### 3.0 Assessment and Initial Results

On December 27, 2016, SMA field personnel were on site to assess the release area using a Photo Ionization Detector (PID), and a mobile chlorides titration kit EPA method 9045D meter. The potentially affected area was found to be approximately 250 feet long and 35 to 3 feet wide. The site delineation samples were at surface initially. Following a four-inch scrape of the effected area, on December 30, 2016, further delineation occurred. Specific sample locations for all samples are depicted on Figure 2 (Site and Sample Location Map). Field screening sample results are detailed in Table 2. On 1/13/2017 further samples were collected for lab confirmation. All samples were collected and processed according to NMOCD soil sampling procedures. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for Total Chlorides using EPA Method 300.0.

### 4.0 Soil Remediation Work Plan

SMA will begin the excavation of affected soils, with approval from area utilities owners via 811 and NMOCD. SMA will continuously guide the excavation activities by collecting composite soil samples for field screening with a mobile titration unit (EPA 4500) and a calibrated PID. Excavation will occur to depths of up to 1 foot bgs sufficient to remove the impacted materials to NMOCD requirements as indicated by the sample results in Table 2. Affected soils will be removed from these areas before closure samples are collected at the final depth of excavation and from the sidewalls. Approximately 30 cubic yards of contaminated soil are projected to be removed and replaced with clean backfill material to return the surface to previous contours. The contaminated soil will be transported for proper disposal at Lea Land, near Carlsbad, NM, an NMOCD permitted disposal facility.

#### 5.0 Conclusions and Recommendations

NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern with a site ranking of 20: 10 ppm (mg/kg) Benzene, 50 ppm total BTEX, and 100 ppm TPH.

When the soil remediation work plan is approved by NMOCD, SMA will begin soil remediation activities on site.

Soil contaminant concentrations found during the initial delineation are illustrated in Figure 2. A summary of the field analyses is included in Table 2. Laboratory reports are included in Appendix A.

#### 6.0 Closure and Limitations

The scope of our services consisted of the performance of release assessment, initial delineation sampling and field screening, verification of release stabilization, regulatory liaison, and preparation of this work plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-7040 or Cindy Gray at 505-325-7535.

Submitted by:

Reviewed by:

SOUDER, MILLER & ASSOCIATES

Austin Weyant

Project Scientist

Cynthia Gray, CHMM Senior Scientist

Figures:

Figure 1: Vicinity Map

Figure 2: Detailed Site and Sample Location Map

Tables:

Table 1: Release Information and Site Ranking

Table 2: Summary of Chloride Field Screening Results

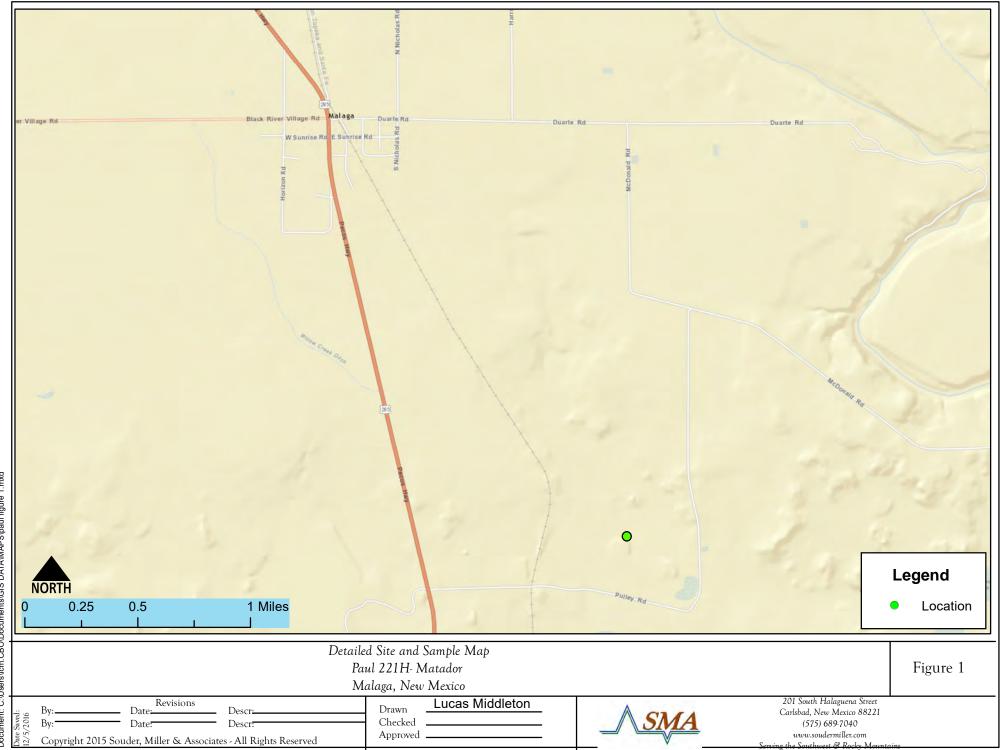
Table 3: Summary of Laboratory Analyses

**Appendices:** 

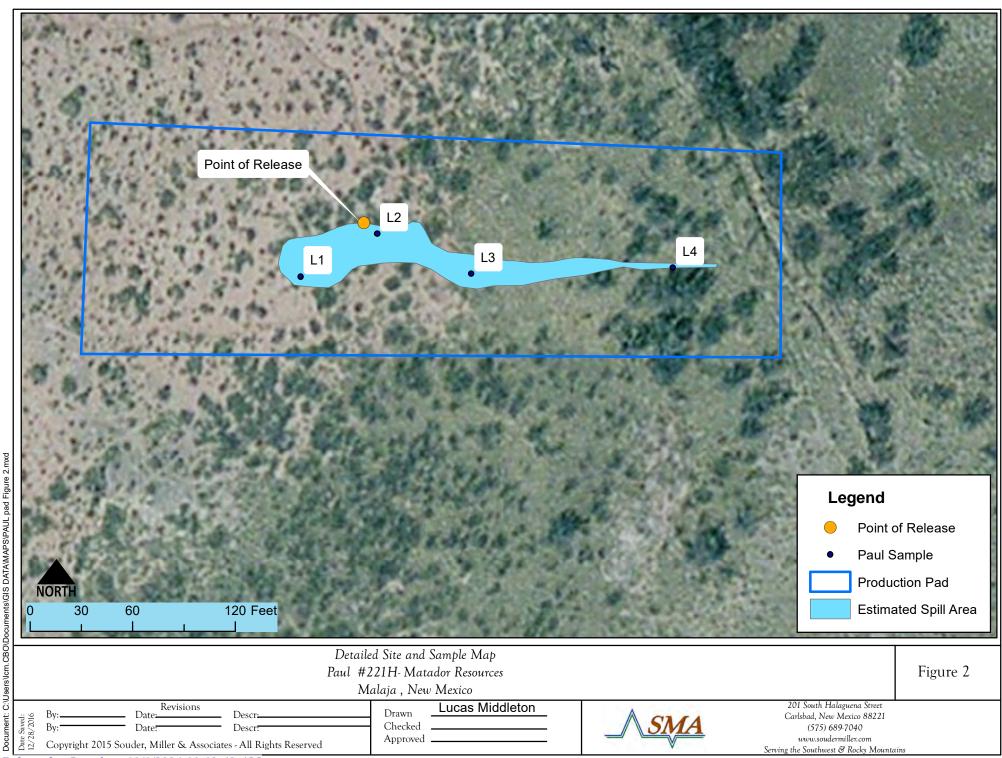
Appendix A: Laboratory Analytical Reports

Appendix B: Form C141 Initial

# FIGURE 1 VICINITY MAP



# FIGURE 2 DETAILED SITE AND SAMPLE LOCATION MAP



Released to Imaging: 10/1/2024 11:13:49 AM

# TABLE 1 RELEASE INFORMATION AND SITE RANKING

| Table 1: Rel                                              | ease inform                     | nation and S     | Site Ranking      | 5             |                       |  |  |  |
|-----------------------------------------------------------|---------------------------------|------------------|-------------------|---------------|-----------------------|--|--|--|
| Name                                                      |                                 | Paul 25          | 24S 28E RI        | B #221H       |                       |  |  |  |
|                                                           | Incident<br>Number              | API<br>Number    | Section           | , Township    | , Range               |  |  |  |
| Location                                                  | 2RP-4051                        | 30-015-<br>43018 | NW/NE<br>(Unit D) | Section<br>25 | T24S,<br>R28E<br>NMPM |  |  |  |
| Estimated Date of Release                                 | December                        | 25, 2016         |                   |               |                       |  |  |  |
| Date Reported to NMOCD                                    | December                        | 25, 2016         |                   |               |                       |  |  |  |
| Reported by                                               | Catherine (                     | Green            |                   |               |                       |  |  |  |
| Land Owner                                                | Private                         |                  |                   |               |                       |  |  |  |
| Reported To                                               | NM Oil Cor                      | nservation [     | Division (NN      | ЛОCD)         |                       |  |  |  |
| Source of Release                                         | Human Err                       | or               |                   |               |                       |  |  |  |
| Released Material                                         | Crude Oil                       |                  |                   |               |                       |  |  |  |
| Released Volume                                           | ~5 bbls Cr                      | ude Oil          |                   |               |                       |  |  |  |
| Recovered Volume                                          | ~2 bbls Cr                      | ude Oil          |                   |               |                       |  |  |  |
| Net Release                                               | 3 bbls Cruc                     | le Oil           |                   |               |                       |  |  |  |
| Nearest Waterway                                          | 1.4 miles north of the location |                  |                   |               |                       |  |  |  |
| Depth to Groundwater                                      | Estimated to be 39 feet         |                  |                   |               |                       |  |  |  |
| Nearest Domestic Water Source                             | Greater than 1,000 feet         |                  |                   |               |                       |  |  |  |
| NMOCD Ranking                                             | 20                              |                  |                   |               |                       |  |  |  |
| SMA Response Dates                                        | Initial: 12/27/16               |                  |                   |               |                       |  |  |  |
| Subcontractors                                            | TBD                             |                  |                   |               |                       |  |  |  |
| Disposal Facility                                         | Lea Land                        |                  |                   |               |                       |  |  |  |
| Estimated Yd3 Contaminated Soil<br>Excavated and Disposed | ~30                             |                  |                   |               |                       |  |  |  |

# TABLE 2 SUMMARY OF CHLORIDE FIELD SCREENING RESULTS

Table 1: Summary of Field Screening Results

Paul Production Pad Release 12/25/16, 2/20/17

|                                       |                                       | FIELD SCREENING RE        | SULTS SUMMA             | RY                |             |  |  |  |  |  |  |  |  |
|---------------------------------------|---------------------------------------|---------------------------|-------------------------|-------------------|-------------|--|--|--|--|--|--|--|--|
| Date                                  | Time                                  | Field Screening Reference | Sample Depth (Feet BGS) | Chlorides Results | PID Results |  |  |  |  |  |  |  |  |
| 12/27/2016                            | 12/27/2016 9:00 L1 Surface 2185 1,200 |                           |                         |                   |             |  |  |  |  |  |  |  |  |
| 12/27/2016 9:00 L2 Surface 1876 1,600 |                                       |                           |                         |                   |             |  |  |  |  |  |  |  |  |
| 12/27/2016 9:00 L3 Surface 1968 1,200 |                                       |                           |                         |                   |             |  |  |  |  |  |  |  |  |
| 12/27/2016                            | 9:00                                  | L4                        | Surface                 | 1785              | 1,300       |  |  |  |  |  |  |  |  |
| 2/20/2017                             | 10:00                                 | L2-2                      | 2'                      | >200              | BDL         |  |  |  |  |  |  |  |  |
| 2/20/2017                             | 10:00                                 | L2-12                     | 12'                     | 1682              | BDL         |  |  |  |  |  |  |  |  |
|                                       |                                       |                           |                         |                   |             |  |  |  |  |  |  |  |  |
|                                       |                                       |                           |                         |                   |             |  |  |  |  |  |  |  |  |
|                                       |                                       |                           |                         |                   |             |  |  |  |  |  |  |  |  |
|                                       |                                       |                           |                         |                   |             |  |  |  |  |  |  |  |  |



# TABLE 3 SUMMARY OF LABORATORY ANALYSES

**Table 3: Summary of Laboratory Analyses** 

| Analytical<br>Report-<br>1701739 | Sample<br>Number on<br>Figure 2 Map | Sample Date | Depth   | BTEX ppm | Benzene<br>mg/Kg | GRO<br>mg/Kg | DRO<br>mg/Kg | CI-<br>mg/Kg |
|----------------------------------|-------------------------------------|-------------|---------|----------|------------------|--------------|--------------|--------------|
| 1701739-<br>001                  | L1                                  | 1/13/2017   | Surface | N/A      | N/A              | 2600         | 17000        | 150          |
| 1701739-<br>002                  | L2                                  | 1/13/2017   | Surface | 88       | 1.2              | 5700         | 28000        | 320          |
| 1701739-<br>003                  | L3                                  | 1/13/2017   | Surface | N/A      | N/A              | 4900         | 28000        | 330          |
| 1701739-<br>004                  | L4                                  | 1/13/2017   | Surface | 140      | 1.7              | 7400         | 29000        | 130          |
| 1702A52-<br>001                  | L2-2                                | 2/20/2017   | 2'      | >0.024   | >0.094           | >4.7         | 36           | 56           |
| 1702A52-<br>002                  | L2-12                               | 2/20/2017   | 12'     | >0.023   | >0.094           | >4.7         | >10          | 1600         |

# APPENDIX A LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 02, 2017

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: Paul Pad OrderNo.: 1702A52

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/23/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

**CLIENT:** Souder, Miller & Associates

### **Analytical Report**

Lab Order **1702A52**Date Reported: **3/2/2017** 

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: L2-2

 Project:
 Paul Pad
 Collection Date: 2/20/2017 10:00:00 AM

 Lab ID:
 1702A52-001
 Matrix: SOIL
 Received Date: 2/23/2017 9:20:00 AM

| Analyses                        | Result      | PQL Qu | al Units | DF | Date Analyzed         | Batch   |
|---------------------------------|-------------|--------|----------|----|-----------------------|---------|
| EPA METHOD 300.0: ANIONS        |             |        |          |    | Analyst               | : MRA   |
| Chloride                        | 56          | 30     | mg/Kg    | 20 | 2/28/2017 10:50:01 PM | 30454   |
| EPA METHOD 8015M/D: DIESEL RANG | SE ORGANICS | 3      |          |    | Analyst               | :: TOM  |
| Diesel Range Organics (DRO)     | 36          | 9.6    | mg/Kg    | 1  | 3/1/2017 11:01:16 AM  | 30399   |
| Surr: DNOP                      | 93.0        | 70-130 | %Rec     | 1  | 3/1/2017 11:01:16 AM  | 30399   |
| EPA METHOD 8015D: GASOLINE RAN  | GE          |        |          |    | Analyst               | : NSB   |
| Gasoline Range Organics (GRO)   | ND          | 4.7    | mg/Kg    | 1  | 2/28/2017 12:03:22 AM | 1 30385 |
| Surr: BFB                       | 85.3        | 54-150 | %Rec     | 1  | 2/28/2017 12:03:22 AM | 1 30385 |
| EPA METHOD 8021B: VOLATILES     |             |        |          |    | Analyst               | :: NSB  |
| Benzene                         | ND          | 0.024  | mg/Kg    | 1  | 2/28/2017 12:03:22 AM | 1 30385 |
| Toluene                         | ND          | 0.047  | mg/Kg    | 1  | 2/28/2017 12:03:22 AM | 30385   |
| Ethylbenzene                    | ND          | 0.047  | mg/Kg    | 1  | 2/28/2017 12:03:22 AM | 1 30385 |
| Xylenes, Total                  | ND          | 0.094  | mg/Kg    | 1  | 2/28/2017 12:03:22 AM | 1 30385 |
| Surr: 4-Bromofluorobenzene      | 89.5        | 80-120 | %Rec     | 1  | 2/28/2017 12:03:22 AM | 1 30385 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### **Analytical Report**

Lab Order **1702A52**Date Reported: **3/2/2017** 

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L2-12

 Project:
 Paul Pad
 Collection Date: 2/20/2017 10:00:00 AM

 Lab ID:
 1702A52-002
 Matrix: SOIL
 Received Date: 2/23/2017 9:20:00 AM

| Analyses                        | Result     | PQL Qu | al Units | DF | Date Analyzed         | Batch  |
|---------------------------------|------------|--------|----------|----|-----------------------|--------|
| EPA METHOD 300.0: ANIONS        |            |        |          |    | Analyst               | : LGT  |
| Chloride                        | 1600       | 75     | mg/Kg    | 50 | 3/2/2017 12:02:19 AM  | 30454  |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS | 3      |          |    | Analyst               | :: TOM |
| Diesel Range Organics (DRO)     | ND         | 10     | mg/Kg    | 1  | 2/28/2017 1:49:46 PM  | 30399  |
| Surr: DNOP                      | 103        | 70-130 | %Rec     | 1  | 2/28/2017 1:49:46 PM  | 30399  |
| EPA METHOD 8015D: GASOLINE RANG | GE         |        |          |    | Analyst               | : NSB  |
| Gasoline Range Organics (GRO)   | ND         | 4.7    | mg/Kg    | 1  | 2/28/2017 12:29:40 AM | 30385  |
| Surr: BFB                       | 90.5       | 54-150 | %Rec     | 1  | 2/28/2017 12:29:40 AM | 30385  |
| EPA METHOD 8021B: VOLATILES     |            |        |          |    | Analyst               | : NSB  |
| Benzene                         | ND         | 0.023  | mg/Kg    | 1  | 2/28/2017 12:29:40 AM | 30385  |
| Toluene                         | ND         | 0.047  | mg/Kg    | 1  | 2/28/2017 12:29:40 AM | 30385  |
| Ethylbenzene                    | ND         | 0.047  | mg/Kg    | 1  | 2/28/2017 12:29:40 AM | 30385  |
| Xylenes, Total                  | ND         | 0.094  | mg/Kg    | 1  | 2/28/2017 12:29:40 AM | 30385  |
| Surr: 4-Bromofluorobenzene      | 97.5       | 80-120 | %Rec     | 1  | 2/28/2017 12:29:40 AM | 30385  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1702A52** 

Page 3 of 6

02-Mar-17

Client: Souder, Miller & Associates

**Project:** Paul Pad

Sample ID MB-30454 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 30454 RunNo: 41047

Prep Date: 2/28/2017 Analysis Date: 2/28/2017 SeqNo: 1286795 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-30454 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 30454 RunNo: 41047

Prep Date: 2/28/2017 Analysis Date: 2/28/2017 SeqNo: 1286796 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.4 90 110

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: **1702A52 02-Mar-17** 

Page 4 of 6

Client: Souder, Miller & Associates

**Project:** Paul Pad

Sample ID MB-30399

Sample ID LCS-30399 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 30399 RunNo: 41033 Prep Date: 2/27/2017 Analysis Date: 2/28/2017 SeqNo: 1285372 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 49 10 O 98.2 63.8 50.00 116 Surr: DNOP 4.7 5.000 93.9 70 130

Client ID: PBS Batch ID: 30399 RunNo: 41033 Prep Date: 2/27/2017 Analysis Date: 2/28/2017 SeqNo: 1285373 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Surr: DNOP 10.00 108 70 11 130

TestCode: EPA Method 8015M/D: Diesel Range Organics

Sample ID LCS-30440 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 30440 RunNo: 41070 Prep Date: 2/28/2017 Analysis Date: 3/1/2017 SeqNo: 1286611 Units: %Rec SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit Qual Surr: DNOP 5.000

TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID MB-30440 SampType: MBLK Client ID: **PBS** Batch ID: 30440 RunNo: 41070 Analysis Date: 3/1/2017 Prep Date: 2/28/2017 SeqNo: 1286612 Units: %Rec SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Surr: DNOP 11 10.00 106 70 130

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1702A52** 

02-Mar-17

Client: Souder, Miller & Associates

**Project:** Paul Pad

Surr: BFB

Sample ID MB-30385 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 30385 RunNo: 41013

Prep Date: 2/24/2017 Analysis Date: 2/27/2017 SeqNo: 1284702 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 830 1000 82.5 54 150

Sample ID LCS-30385 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 30385 RunNo: 41013

1000

Prep Date: 2/24/2017 Analysis Date: 2/27/2017 SeqNo: 1284703 Units: mg/Kg

1000

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 28 5.0 25.00 0 112 76.4 125

103

54

150

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 5 of 6

## Hall Environmental Analysis Laboratory, Inc.

0.89

WO#: 1702A52

Page 6 of 6

02-Mar-17

Client: Souder, Miller & Associates

**Project:** Paul Pad

Surr: 4-Bromofluorobenzene

Sample ID MB-30385 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 30385 RunNo: 41013 Prep Date: 2/24/2017 Analysis Date: 2/27/2017 SeqNo: 1284760 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.025 ND 0.050 Toluene ND 0.050 Ethylbenzene Xylenes, Total ND 0.10

89.0

80

120

| Sample ID LCS-30385        | Samp       | Type: <b>LC</b> | S         | Tes         | tCode: E | PA Method | 8021B: Volat | tiles |          |      |
|----------------------------|------------|-----------------|-----------|-------------|----------|-----------|--------------|-------|----------|------|
| Client ID: LCSS            | Batc       | h ID: 30        | 385       | F           | RunNo: 4 | 1013      |              |       |          |      |
| Prep Date: 2/24/2017       | Analysis [ | Date: 2/        | 27/2017   | 8           | SeqNo: 1 | 284761    | Units: mg/k  | (g    |          |      |
| Analyte                    | Result     | PQL             | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit    | %RPD  | RPDLimit | Qual |
| Benzene                    | 0.96       | 0.025           | 1.000     | 0           | 96.5     | 75.2      | 115          |       |          |      |
| Toluene                    | 0.99       | 0.050           | 1.000     | 0           | 99.4     | 80.7      | 112          |       |          |      |
| Ethylbenzene               | 0.98       | 0.050           | 1.000     | 0           | 98.3     | 78.9      | 117          |       |          |      |
| Xylenes, Total             | 3.0        | 0.10            | 3.000     | 0           | 100      | 79.2      | 115          |       |          |      |
| Surr: 4-Bromofluorobenzene | 0.84       |                 | 1.000     |             | 84.4     | 80        | 120          |       |          |      |

1.000

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
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- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

w Sample container temperature is out or mint as specifi



Hall Environmental Analysis Luborators 490) Hawkins SE Albuquetque, NM 87105 TEA, 505-345-3975 FAX, 505-345-4167 Website, www.hallenvironmental.com

# Sample Log-In Check List

| Client Name: SMA-CARLSBAD We                                                            | ork Order Number: | 1702A   | 52     |             | ReptNo: 1                          |
|-----------------------------------------------------------------------------------------|-------------------|---------|--------|-------------|------------------------------------|
| Received by/date: LM 02                                                                 | 123/17            |         |        |             |                                    |
| Logged By. Andy Jansson 2/23/                                                           | 2017 9:20:00 AM   |         |        | W. Same     |                                    |
| Completed By Andy Jansson 02/2                                                          | 3117.             |         |        | MK second   |                                    |
| Reviewed By                                                                             | 124/17            |         |        |             |                                    |
| Chain of Custody                                                                        | 15 1111           |         |        |             |                                    |
|                                                                                         |                   |         |        | 000 F T T T | 10x10340240x11x10x1x1x4x           |
| Custody seals intact on sample bottles?                                                 |                   | Yes     |        | No          | Not Present 🗸                      |
| 2, Is Chain of Custody complete?                                                        |                   | Yes '   | ~      | No          | Not Present                        |
| 3. How was the sample delivered?                                                        |                   | Courie  | Ţ      |             |                                    |
| Log In                                                                                  |                   |         |        |             |                                    |
| 4. Was an attempt made to cool the samples?                                             |                   | Yes     | V      | No          | -NA                                |
| 5. Were all samples received at a temperature of >0                                     | 0° C to 6.0°C     | Yes V   | /      | No          | NA 🗔                               |
| 6. Sample(s) in proper container(s)?                                                    |                   | Yes     | v -    | No          |                                    |
| 7. Sufficient sample volume for indicated test(e)?                                      |                   | Yes 1   | /      | No          |                                    |
| 8, Are samples (except VOA and ONG) properly pres                                       | served?           | Yes N   | 1      | No          |                                    |
| 9. Was preservative added to bottles?                                                   |                   | Yes     |        | No 🗸        | NA.                                |
| 10. VOA vials have zero fleadspace?                                                     |                   | Ves     |        | No          | No VOA Vials 🗸                     |
| 11, Were any sample containers received broken?                                         |                   | Yes     |        | No 🗸        | # of preserved                     |
| 12 5000                                                                                 |                   |         |        |             | bottles checked                    |
| 12 Does paperwork match bottle labele?<br>(Note discrepancies on chain of custody).     |                   | Yes Y   |        | No          | for pH:<br>(<2 or >12 unless noted |
| 13. Are matrices correctly identified on Chain of Custon                                | dv?               | Yes V   | ,      | No 📗        | Adjusted?                          |
| 4. Is it clear what analyses were requested?                                            | 100               | Yes V   | ,      | No          |                                    |
| 15. Were all holding times able to be met?  (If no, notify customer for authorization.) |                   | Yes V   |        | No          | Checked by                         |
| pecial Handling (if applicable)                                                         |                   |         |        |             |                                    |
| 16, Was client notified of all discrepancies with this ord                              | ter?              | Yes     | T.     | No          | NA V                               |
| Person Notified:                                                                        | Date:             |         |        | _           |                                    |
| By Whom:                                                                                | Via               | eMail   | Phor   | e Fax       | In Person                          |
| Regarding:                                                                              |                   | 971100) | T Tran | io i i da   | mr cisar                           |
| Client Instructions:                                                                    |                   | _       | _      |             |                                    |
| 17. Additional remarks:                                                                 |                   |         |        |             |                                    |
| 8. Cooler Information Cooler No Temp °C Condition Seal Inta                             | cl Sea No Se      | al Date | l sic  | ned By      |                                    |
| † 2.8 Good Yes                                                                          |                   |         |        |             |                                    |
| Page   of 1                                                                             |                   |         |        |             |                                    |

| Clent                        | 3                | 2                | SMA Color                   | f. Brandard             | □ Rush               | E         |           |                        |              | HALL ENVIRONMENTAL | HALL ENVIRONMENTAL                      | VI               | IRC                       | N C          | NEN | Σ | 13          |
|------------------------------|------------------|------------------|-----------------------------|-------------------------|----------------------|-----------|-----------|------------------------|--------------|--------------------|-----------------------------------------|------------------|---------------------------|--------------|-----|---|-------------|
|                              |                  |                  |                             | Project Name;           | 0                    | 2         |           |                        | -            | WWW                | www.hallenvironmental.com               | virontr          | ental                     | D NO.        | 5   | 5 | 7           |
| ailing A                     | Mailing Address: |                  |                             |                         | Paul                 | 120       |           | 4901                   | Hawk         | ins NE             | 4901 Hawkins NE - Albuquerque, NM 87109 | enbac            | due, h                    | MM 87        | 60  |   |             |
|                              |                  |                  |                             | Project #               |                      |           |           | Tel.                   | 505-345-3975 | 15-39              | g)                                      | Fax 5            | 05-34                     | 505-345-4107 |     |   |             |
| Phone #:                     | 4.1              |                  |                             |                         |                      |           |           |                        |              |                    | Anal                                    | Analysis Request | edne                      | tt           |     |   |             |
| email or Fax#:               | #XE              |                  |                             | Project Manager         | ager                 |           |           | _                      | 100          |                    |                                         | ( <sub>b</sub> C | 2                         | 1            |     |   |             |
| QA/QC Package.<br>□ Standard | ackage.          |                  | ☐ Level 4 (Full Validation) |                         |                      |           |           |                        | 0M 1 83      |                    | (SWIS                                   | PO, SC           | bc8.a                     |              |     |   |             |
| Accreditation                | non              | □ Other          |                             | Sampler<br>On Ice:      | L ves                | oN 🗆      |           |                        |              |                    | 3 0/Z8                                  | ZON'E            | 7 808                     | (4           | _   |   | 114-        |
| □ EDD (Type)                 | Type)            |                  |                             | Sample Temperature      | perature. 7          | 8         |           |                        |              |                    |                                         | _                |                           | -            |     |   | - 67        |
| Date                         | Time             | Matrix           | Sample Request ID           | Container<br>Type and # | Preservative<br>Type | HEAL NO.  | TM + X3T8 | TM + X3T8<br>TPH 8015B | orbaM) H9T   | EDB (Metho         | PAH's (8310<br>RCRA 8 Me                | DA) snoinA       | 8081 Pestic<br>8260B (VO/ | -imə2) 07S8  |     |   | səlddu8 niA |
| 7-20-7                       | 100              | Sort             | 7-27                        |                         |                      | 100-      | ×         | ×                      |              |                    | _                                       | ×                |                           | Ц            |     |   |             |
|                              |                  |                  | U-27                        |                         |                      | 700-      | X         | *                      |              |                    |                                         | ×                |                           |              |     |   |             |
|                              |                  |                  |                             |                         |                      |           |           |                        |              |                    | -                                       |                  |                           |              |     |   |             |
|                              |                  |                  |                             |                         |                      |           |           |                        |              |                    | ++                                      |                  |                           |              | H   |   |             |
|                              |                  |                  |                             |                         |                      |           |           | +                      |              |                    | +                                       |                  | -                         |              | +   |   |             |
|                              |                  |                  |                             |                         |                      |           |           |                        |              |                    |                                         |                  |                           |              |     |   |             |
|                              |                  |                  |                             |                         |                      |           |           | #                      |              |                    | +                                       |                  | -                         |              |     |   |             |
| 222-17 8                     | Time:            | Relinquished by: | der He                      | Receimed by             | 120                  | Date Time | Remarks   | arks:                  |              |                    |                                         |                  |                           |              |     |   |             |
| _                            | Time:            | Relinquished by: | d by:                       | Received by             |                      | Date Time |           |                        |              |                    |                                         |                  |                           |              |     |   |             |

# APPENDIX B FORM C141 INITIAL

District I
1625 N. French Dr., Hobbs, NM 88240
District II
11 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico C-141 - for date
Energy Minerals and Natural Resources Stamp place Revised August 8, 2011

Oil Concernation Division D

Oil Conservation Division Submit 1220 South St. Francis Dr. Original Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action** 

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                      |                                                                                    |                                                                                                                             |          | <b>PERAT</b>                                                 | OR                                       |           | x Initia                                         | al Report                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            | Final Report                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------|------------------------------------------|-----------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| Name of Com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Describe Area Oil spilled on g  I hereby certify regulations all public health o should their or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Affected ground. So y that the operators or the envious perations had been sent to be a sent to | and Cleanup A<br>bil will be san<br>information g<br>are required to<br>ronment. The | Action Tal<br>apled for c<br>iven above<br>to report a<br>e acceptan<br>adequately | ken.* contaminants. Con e is true and comp nd/or file certain to ce of a C-141 report y investigate and reptance of a C-141 | ntaminat | he best of my<br>otifications a<br>e NMOCD n<br>e contaminat | knowledge<br>and perform conarked as "Fi | and und   | erstand that pure actions for reort" does not re | plan is appropulation of the second s | oved.  OCD n h may er erator of //ater, hu | ules and<br>ndanger<br>Tiability<br>man health |
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| Attach Addition of the | ional She<br>Val<br>OA'S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ets If Neces Initia + Initi Scann                                                    | al (                                                                               | 141<br>corre-<br>withit                                                                                                     | Ç.       | spill v<br>intry<br>accord                                   | blume<br>will<br>ingly                   |           | ystem                                            | d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            | ,                                              |

# APPENDIX C OSE DATA



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

|              | <u>'</u>        | • •           | ·           | · · · · · · · · · · · · · · · · · · · |         | <u> </u>    | ·            |
|--------------|-----------------|---------------|-------------|---------------------------------------|---------|-------------|--------------|
|              | POD             |               |             |                                       |         |             |              |
|              | Sub-            | QQQ           |             |                                       |         | Depth       | Depth Water  |
| POD Number   | Code basin Cour | nty 64 16 4 S | Sec Tws Rng | X                                     | Y Di    | stance Well | Water Column |
| C 03833 POD1 | C ED            | 2 1 2         | 26 24S 28E  | 589014 35                             | 62545 🌍 | 660 96      | 55 41        |
| C 03358 POD1 | C ED            | 1 4 1         | 26 24S 28E  | 588416 35                             | 62116 🌍 | 1287 135    |              |

Average Depth to Water: 55 feet

Minimum Depth: 55 feet

Maximum Depth: 55 feet

**Record Count: 2** 

UTMNAD83 Radius Search (in meters):

**Easting (X):** 589664.55 **Northing (Y):** 3562429.4 **Radius:** 1500

 From:
 Bratcher, Mike, EMNRD

 To:
 "Catherine Green"

 Cc:
 Weaver, Crystal, EMNRD

Subject: RE: Emailing - WORK PLAN FOR INCIDENT 2RP-4051 Paul 25 24S 28E RB 221H API 30-015-4301....pdf

**Date:** Friday, March 31, 2017 5:36:00 PM

RE: Matador Production Co. \* Paul 25 24S 28E RB 221H \* 2RP-4051 \* DOR: 12/25/16

Catherine,

Thank you for the phone call earlier. I appreciate your comments and hope I was able to answer your questions and concerns satisfactorily.

At this time, your proposal for remediation of the above referenced release is approved with the following comments and conditions of approval:

- It is OCD's understanding that the spill occurred on the well site pad. Please advise if this incorrect. It would be extremely helpful to have a site diagram that depicts the spill in relation to current conditions at the spill site. The well was recently drilled and facilities recently constructed, so the image submitted shows the spill in an open field. In this instance, an updated site diagram needs to be submitted showing the spill in relation to the well and production equipment.
- The proposal states the area will be excavated up to 1' in depth. Sample data shows analytical values at surface, and then at a 2' interval. I am unable to determine at what depth the acceptable remediation level is reached. The proposal does outline the acceptable remediation limits, and based on data presented, it should be noted that excavation may be required beyond the proposed 1' interval.
- Composite samples, as proposed, are **not** approved.
- Chloride levels do not appear to be an issue in this case, but data provided shows a spike at 12'. Being an oil only release, and a new well site, it is highly unlikely the spike is related to operations, but that should be explained, or background data obtained, for clarification. I am not requesting a background sample for this spill since it is a relatively new site and I am somewhat familiar with the area. Just be aware that this may not always be the case.
- It is OCD's understanding that sidewall confirmation samples will be obtained for lateral definition.

Please proceed on your schedule, but advise once remedial operations have been scheduled.

If you have any questions or concerns, and for notification, please contact me.

Thank you,

Mike Bratcher NMOCD District 2 811 S. First St. Artesia NM 88210 575-748-1283 Ext 108

#### mike.bratcher@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

<end>

**From:** Catherine Green [mailto:CGreen@matadorresources.com]

Sent: Friday, March 31, 2017 3:14 PM

**To:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Subject: Emailing - WORK PLAN FOR INCIDENT 2RP-4051 Paul 25 24S 28E RB 221H API 30-015-

4301....pdf

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 From:
 Bratcher, Mike, EMNRD

 To:
 "Catherine Green"

 Cc:
 Weaver, Crystal, EMNRD

Subject: RE: Emailing - WORK PLAN FOR INCIDENT 2RP-4051 Paul 25 24S 28E RB 221H API 30-015-4301....pdf

**Date:** Monday, April 3, 2017 6:37:00 AM

#### Catherine,

SMA may need to confirm, but I believe the deeper sample was obtained to meet the COA requirements. Thought of that after sending the approval. It was late and it was Friday.

Thanks,

Mike Bratcher NMOCD District 2 811 South First Street Artesia NM 88210 575-748-1283 Ext 108 mike.bratcher@state.nm.us

From: Bratcher, Mike, EMNRD

**Sent:** Friday, March 31, 2017 5:37 PM

**To:** 'Catherine Green' <CGreen@matadorresources.com> **Cc:** Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>

Subject: RE: Emailing - WORK PLAN FOR INCIDENT 2RP-4051 Paul 25 24S 28E RB 221H API 30-015-

4301....pdf

RE: Matador Production Co. \* Paul 25 24S 28E RB 221H \* 2RP-4051 \* DOR: 12/25/16

Catherine,

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At this time, your proposal for remediation of the above referenced release is approved with the following comments and conditions of approval:

- It is OCD's understanding that the spill occurred on the well site pad. Please advise if this incorrect. It would be extremely helpful to have a site diagram that depicts the spill in relation to current conditions at the spill site. The well was recently drilled and facilities recently constructed, so the image submitted shows the spill in an open field. In this instance, an updated site diagram needs to be submitted showing the spill in relation to the well and production equipment.
- The proposal states the area will be excavated up to 1' in depth. Sample data shows analytical values at surface, and then at a 2' interval. I am unable to determine at what depth the acceptable remediation level is reached. The proposal does outline the acceptable

remediation limits, and based on data presented, it should be noted that excavation may be required beyond the proposed 1' interval.

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- It is OCD's understanding that sidewall confirmation samples will be obtained for lateral definition.

Please proceed on your schedule, but advise once remedial operations have been scheduled.

If you have any questions or concerns, and for notification, please contact me.

Thank you,

Mike Bratcher NMOCD District 2 811 S. First St. Artesia NM 88210 575-748-1283 Ext 108 mike.bratcher@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

<end>

**From:** Catherine Green [mailto:CGreen@matadorresources.com]

Sent: Friday, March 31, 2017 3:14 PM

**To:** Bratcher, Mike, EMNRD < <u>mike.bratcher@state.nm.us</u>>

Subject: Emailing - WORK PLAN FOR INCIDENT 2RP-4051 Paul 25 24S 28E RB 221H API 30-015-

4301....pdf

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March 29, 2018

#5E25774-BG19

NMOCD District II Crystal Weaver 811 S. First St. Artesia, NM 88210

SUBJECT: 2RP-4290 CLOSURE REPORT FOR THE INCIDENT AT THE TIGER 14-24S-28E RB, #202H & #222H PAD, EDDY COUNTY, NEW MEXICO

Dear Crystal Weaver,

On behalf of Matador Resources, Souder, Miller & Associates (SMA) has prepared this CLOSURE REPORT that describes the assessment, initial delineation and remediation for a release associated with the Tiger 14-24S-28E RB #202H & #22H pad (Tiger #202) release. The site is in UNIT H, SECTION 14, TOWNSHIP 24S, RANGE 28E, NMPM, Eddy County, New Mexico, on Private land. Figure 1 illustrates the vicinity and location of the site.

Table 1, below, summarizes information regarding the release.

| Table 1: Rel                     | Table 1: Release information and Site Ranking |  |  |  |  |  |  |  |  |  |
|----------------------------------|-----------------------------------------------|--|--|--|--|--|--|--|--|--|
| Name                             | TIGER 14-24S-28E RB, #202H & #222H PAD        |  |  |  |  |  |  |  |  |  |
| Company                          | Matador Resources                             |  |  |  |  |  |  |  |  |  |
| RP Number                        | 2RP-4290                                      |  |  |  |  |  |  |  |  |  |
| API Number                       | 30-015-44119                                  |  |  |  |  |  |  |  |  |  |
| Location                         | 32.220092, -104.0505577                       |  |  |  |  |  |  |  |  |  |
| Estimated Date of Release        | 7/6/2017                                      |  |  |  |  |  |  |  |  |  |
| Date Reported to NMOCD           | 7/6/2017                                      |  |  |  |  |  |  |  |  |  |
| Land Owner                       | Private                                       |  |  |  |  |  |  |  |  |  |
| Reported To                      | Tim Gum                                       |  |  |  |  |  |  |  |  |  |
| Source of Release                | Gasket on line Failed                         |  |  |  |  |  |  |  |  |  |
| Released Material                | Produced Water                                |  |  |  |  |  |  |  |  |  |
| Released Volume                  | 52 bbls                                       |  |  |  |  |  |  |  |  |  |
| Recovered Volume                 | 15 bbls                                       |  |  |  |  |  |  |  |  |  |
| Net Release                      | 37 bbls                                       |  |  |  |  |  |  |  |  |  |
| Nearest Waterway                 | 1.1 mile West of The Pecos River              |  |  |  |  |  |  |  |  |  |
| Depth to Groundwater             | Estimated to be less than 50'                 |  |  |  |  |  |  |  |  |  |
| Nearest Domestic Water<br>Source | Greater than 1,000 feet                       |  |  |  |  |  |  |  |  |  |
| NMOCD Ranking                    | 20                                            |  |  |  |  |  |  |  |  |  |
| SMA Response Dates               | Initial: 8/30/17                              |  |  |  |  |  |  |  |  |  |

Page 2 of 5

#### 1.0 Background

The ring Gasket on the zipper manifold washed out during hydraulic stimulation operations. Vacuum trucks were called in to clean up standing water, and the ring gasket was replaced. The affected area is approximately a 50 foot radius around the wellhead. For further information see C-141 initial located in appendix A.

The fluid released recycled and treated produced water from the Tiger Facility 2RF-106, operating under 19.15.34.12 NMAC which allows the disposition of produced water for use as a drilling or completion fluid at a drilling site or disposition under other Division authorization. The produced water treated at the Tiger Facility 2RF-106 has been treated to reduce total dissolved solids found in the produced water, see appendix D for third party lab analysis of the inlet produced water from the Tiger Facility 2RF-106. Also included is the New Mexico Water Resource Research Institute (WRRI) data on the Tiger location formation produced water data.

The soil types located under and around the Tiger #202 have a moderate to high electrical conductivity (EC) according to United States Department of Agriculture (USDA) and Natural Resource Conservation Service NRCS. "(EC) is the electrolytic conductivity of an extract from saturated soil paste, expressed as decisiemens per meter at 25 degrees C. Electrical conductivity is a measure of the concentration of water-soluble salts in soils. It is used to indicate saline soils. High concentrations of neutral salts, such as sodium chloride and sodium sulfate." (NRCS soil sampling guide) According to the Eddy County Soil Survey the soils in and around the Tiger #202 location are moderately high in sodium chloride and sodium sulfate with baseline (EC) from 2-5 decisiemens per meter at 25 degrees C see NRCS Electrical Conductivity Map (Figure #3).

SMA and Matador have confirmed this moderately high (EC) effect from the area soil types in several baseline sampling events conducted on Matadors behalf prior to E&P operations (see appendix D). All attached third party lab results have been collected in the same area soil types that surround the irrigated river valley near the Tiger #202 location. The four representative baseline sample events where collected by SMA and are summarized in (Table # 4).

- Tom Walters baseline soil data shows pre-Matador oil and gas operation EPA 300 Cl- from 2300ppm-3900ppm
- Warren baseline soil data shows pre-Matador oil and gas operation EPA 300 CI- from 170ppm- 2400ppm
- Guitar baseline soil data shows pre-Matador oil and gas operation EPA 300 CI- from 2200ppm- 4000ppm
- B Banker baseline soil data shows pre-Matador oil and gas operation EPA 300 CI- from 55ppm- 3500ppm

In addition, SMA and Matador have confirmed this moderately high (EC) effect from the area soil types in Background delineation from sampling events conducted on Matadors behalf by SMA for remedial purposes.

- Paul background soil data BG1, BG2, and BG3 shows non-disturbed by Matador oil and gas operations EPA 300 CI- from 43ppm-5300ppm
- Tiger background soil data BG1 shows non-disturbed by Matador oil and gas operations EPA 300 CI- from 24ppm-4800ppm

As outlined above, the high concentrations of neutral salts, such as sodium chloride and sodium sulfate should be found in the Tiger #202 soil types; Gypsum Cottonwood, Karro Loam, Pima Silt, Regan and Reeves loams. Several samples were taken at one background location to a total depth of 10 feet and tested for sulfates. SMA has also included data from three other background locations in the same soil types as located at the Paul location. Sulfates can be used as a reference criterion on this release due to the natural parent material found in the area soil types and its low concentrations found in the produced water from the area wells, formations, and the Tiger Facility 2RF-106 (see attached data in

Page 3 of 5

appendix E). Four background sample locations (shown in Table #4) were used to establish the background level of sulfates in the area and serve as further proof of the NRCS, USDA and SMA baseline data. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for sulfates (all lab reports are located in appendix D).

#### 2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 1.1 miles west of the Pecos River, with an elevation of approximately 2,966 feet above sea level. SMA searched the New Mexico State Engineer's Office (NMOSE) online water well database for water wells in the vicinity of the release. 0 wells are located within a 1,000 foot radius of the site. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be less than 40' feet below ground surface (bgs). This determination was made using OSE well and elevation correction to determine the depth of ground water below location.

Recommended Remediation Action Levels (RRALs) are determined by the site ranking according to the NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (1993). Below in Table 2 are the remediation standards and the site ranking for this location. Justification for this site ranking is found in Figure 1 and Appendix B.

Table 2.

| Soil Remediation Standards | 0 to 9   | 10 to 19 | >19     |
|----------------------------|----------|----------|---------|
| Benzene                    | 10 PPM   | 10 PPM   | 10 PPM  |
| BTEX                       | 50 PPM   | 50 PPM   | 50 PPM  |
| ТРН                        | 5000 PPM | 1000 PPM | 100 PPM |

| Depth to Groundwater              | NMOCD Numeric Rank |
|-----------------------------------|--------------------|
| < 50 BGS = 20                     | 20                 |
| 50' to 99' = 10                   |                    |
| >100' = 0                         |                    |
| Distance to Nearest Surface Water | NMOCD Numeric Rank |
| < 200' = 20                       |                    |
| 200' - 1000' = 10                 |                    |
| >1000' = 0                        | 0                  |
| Well Head Protection              | NMOCD Numeric Rank |
| <1000' (or <200' domestic) = 20   |                    |
| > 1000' = 0                       | 0                  |
| Total Site Ranking                | 20                 |

#### 3.0 Release Characterization

On August 28, 2017, with approval from area utilities owners via 811, Matador and its subcontractors performed a 0.5 feet bgs scrap of the entire Tiger #202 location. This is standard operating procedure

Page 4 of 5

for Matador locations to provide an unaffected surface for completion operations. All soil is then hauled to and NMOCD approved facility for disposal. SMA was on site June 21, 2017 and sampled the prescraped location pad. SMA collected 10 discrete soil sample locations and an unaffected background. All samples were screened in the feild with a mobile (EC) unit (EPA 4500). SMA also mapped the affected area on the pad, a to scale map of the sample locations an affected area can be found in Figure #2.

SMA returned on August 30<sup>th</sup> 2017 after the Tiger #202 location pad had been scraped and had the top 0.5 feet removed and disposed. The Background sample location BG1 as denoted on Figure #2, was delineated to 10 feet bgs with EPA method 300 chloride concentrations in the of 1600ppm at the surface. Location L1 is the discrete sample location closes to the source of the release. L1 was delineated to 10ft bgs. All sample locations depicted on Figure 2 (Sample Location Map) along with sampling details within Table 3. All samples were collected and processed according to NMOCD soil sampling procedures. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for total Chlorides using EPA Method 300.0.

#### 4.0 Summary of Soil Remediation

Closure samples were collected at the final depth of pad scrape in discrete locations as depicted in the Figure #2 map. No sidewall samples were collected because the locations pad was scraped in its entirety, thus leaving no sidewalls. All closure samples collected on August 30<sup>th</sup> 2017 by SMA are less than the background concentration of naturally occurring chloride.

The closure samples taken were tested for Sulfates and Calcium in addition to Chlorides. Sulfates and Calcium were used as a reference criterion on this release to help proved added data to the high background Chlorides from previous agricultural activities and soil parent material, as discussed with the in section 1 of this report. Soils high in Sulfates can historically be high in Chloride constituent as well, all soils tested on location where high in Sulfides even at depth even though the released fluid is not Sulfide rich.

The recycled produced water used to hydraulic stimulate the wells located at the Tiger #202 contains 490ppm Sulfate, 6800ppm of Calcium and 1000000 ppm of Chloride in its untreated state, as shown in the lab analysis provided in Appendix D. As shown in Table # 3 the soils left in-situ on location have less than or equal concentrations of Calcium when compared to the background. The closure samples tested for Chlorides and Calcium compared to the background sample results to help determine that contaminated soils were adequately removed. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis.

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#### 5.0 Scope and Limitations

The scope of our services consisted of the performance of assessment sampling, verification of release stabilization, remediation oversight, regulatory liaison, and preparation of this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-8801 or Cynthia Gray at 505-325-7535, extension 1104.

Submitted by:

SOUDER, MILLER & ASSOCIATES

Austin Weyant

Project Scientist

Reviewed by:

Reid S. Allan

Principal Scientist, Sr. Vice President

#### **ATTACHMENTS:**

#### Figures:

Figure 1: Vicinity and NMOSE Well Head Protection Map

Figure 2: Site and Sample Location Map Figure 3: NRCS Electrical Conductivity Map

#### Tables:

Table 3: Summary of Sample Results

Table 4: Summary of Baseline and Background Sample Results

#### Appendices:

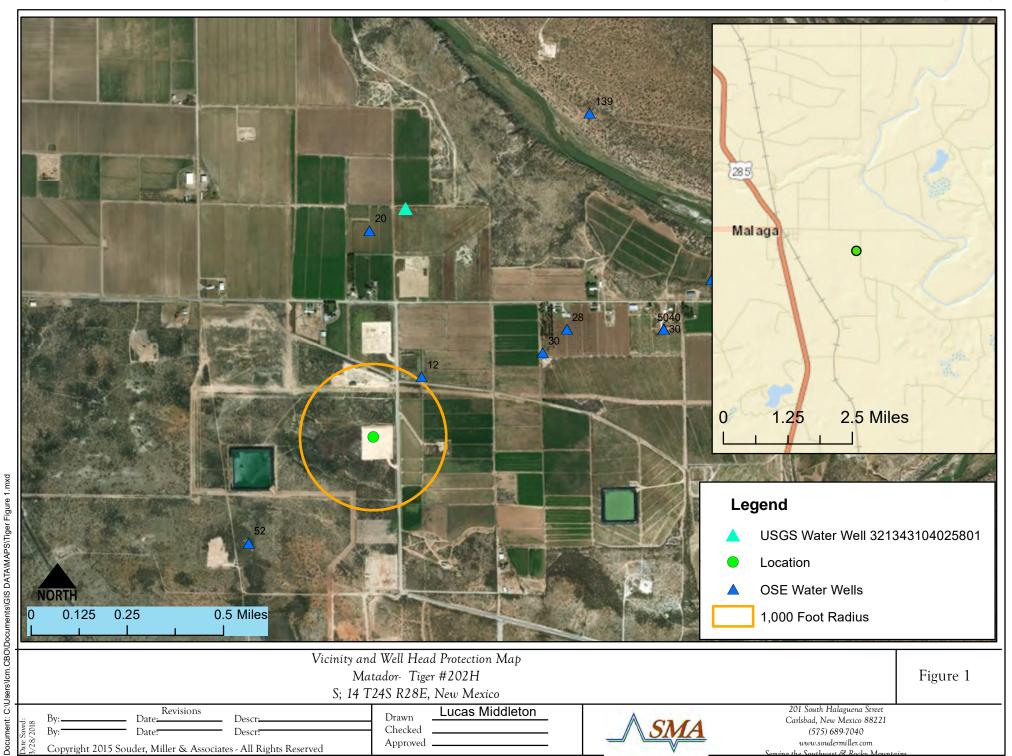
Appendix A: Form C141 Final

Appendix B: NMOSE Wells Report

Appendix C: Laboratory Analytical Reports

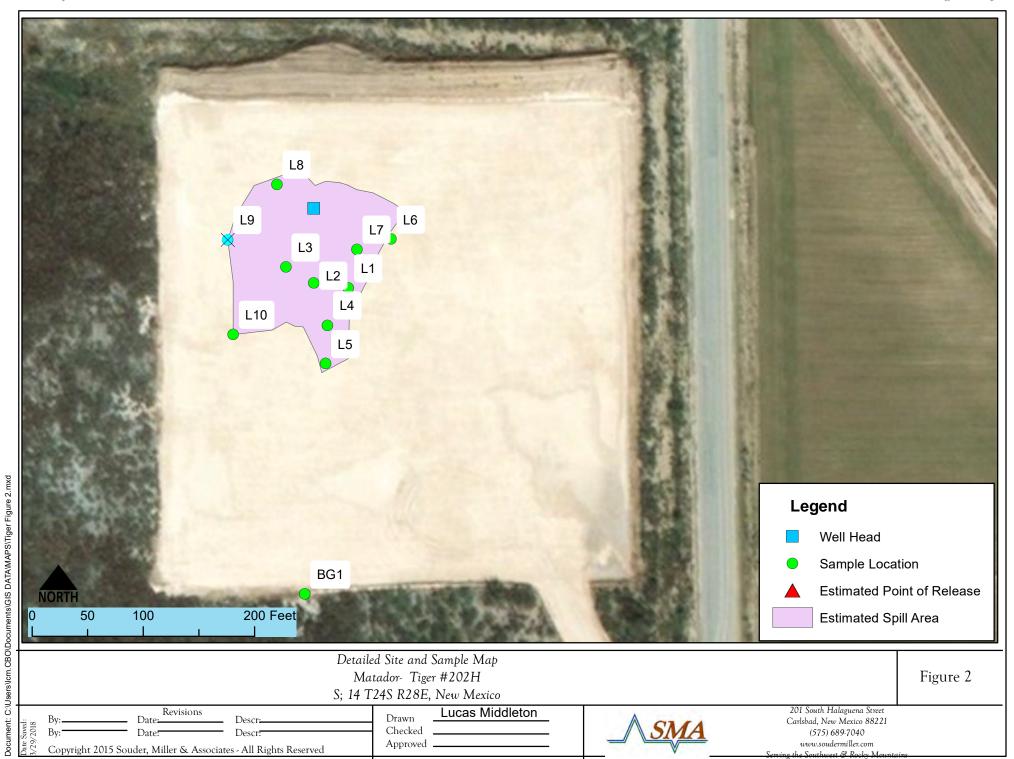
Appendix D: Laboratory Analytical Reports (BASELINE AND BACKGROUND)

# FIGURE 1 VICINITY AND NMOSE DATA MAP

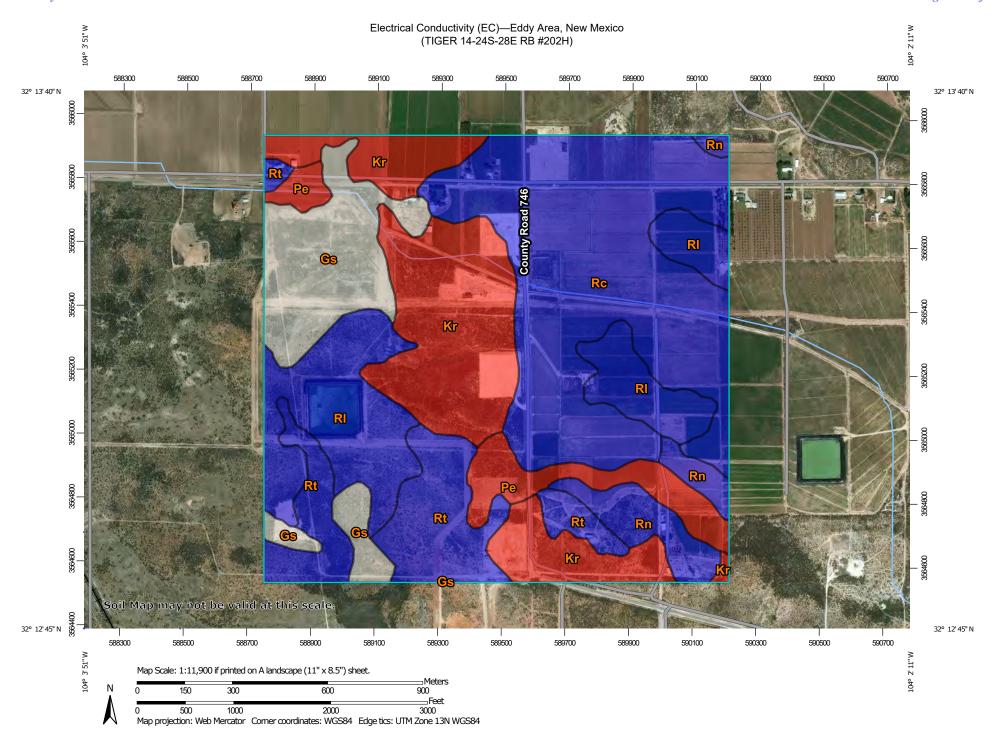


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# FIGURE 2 SITE AND SAMPLE LOCATION MAP



## FIGURE 3: NRCS ELECTRICAL CONDUCTIVITY MAP



#### Electrical Conductivity (EC)—Eddy Area, New Mexico (TIGER 14-24S-28E RB #202H)

#### MAP LEGEND

#### Area of Interest (AOI)

Area of Interest (AOI)

#### Soils

#### Soil Rating Polygons

<= 2.0

> 2.0 and <= 5.0

Not rated or not available

#### Soil Rating Lines

...

<= 2.0

-

> 2.0 and <= 5.0

أوراهر

Not rated or not available

#### **Soil Rating Points**

<= 2.0

> 2.0 and <= 5.0

■ Not rated or not available

#### **Water Features**

~

Streams and Canals

#### Transportation

+++

Rails

~

Interstate Highways

~

US Routes

 $\sim$ 

Major Roads

 $\sim$ 

Local Roads

#### Background

30

Aerial Photography

#### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 13, Sep 9, 2017

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Apr 21, 2013—Mar 16, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

#### **Electrical Conductivity (EC)**

| Map unit symbol          | Map unit name                                                | Rating (decisiemens per meter) | Acres in AOI | Percent of AOI |
|--------------------------|--------------------------------------------------------------|--------------------------------|--------------|----------------|
| Gs                       | Gypsum land-<br>Cottonwood complex,<br>0 to 3 percent slopes |                                | 58.3         | 11.5%          |
| Kr                       | Karro loam, 0 to 1 percent slopes                            | 2.0                            | 103.6        | 20.4%          |
| Pe                       | Pima silt loam, 0 to 1 percent slopes                        | 2.0                            | 27.6         | 5.4%           |
| Rc                       | Reagan loam, 0 to 1 percent slopes                           | 5.0                            | 157.5        | 31.0%          |
| RI                       | Reeves loam, 0 to 1 percent slopes                           | 5.0                            | 79.9         | 15.7%          |
| Rn                       | Reeves loam, 1 to 3 percent slopes                           | 5.0                            | 23.3         | 4.6%           |
| Rt                       | Reeves loam, shallow, 0 to 1 percent slopes                  | 5.0                            | 57.6         | 11.3%          |
| Totals for Area of Inter | rest                                                         |                                | 507.8        | 100.0%         |

#### **Description**

Electrical conductivity (EC) is the electrolytic conductivity of an extract from saturated soil paste, expressed as decisiemens per meter at 25 degrees C. Electrical conductivity is a measure of the concentration of water-soluble salts in soils. It is used to indicate saline soils. High concentrations of neutral salts, such as sodium chloride and sodium sulfate, may interfere with the absorption of water by plants because the osmotic pressure in the soil solution is nearly as high as or higher than that in the plant cells.

For each soil layer, this attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

#### **Rating Options**

Units of Measure: decisiemens per meter
Aggregation Method: Dominant Component

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Component" returns the attribute value associated with the component with the highest percent composition in the map unit. If more than one component shares the highest percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher attribute value should be returned in the case of a percent composition tie. The result returned by this aggregation method may or may not represent the dominant condition throughout the map unit.

Component Percent Cutoff: None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Higher

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Interpret Nulls as Zero: No

This option indicates if a null value for a component should be converted to zero before aggregation occurs. This will be done only if a map unit has at least one component where this value is not null.

Layer Options (Horizon Aggregation Method): Surface Layer (Not applicable)

For an attribute of a soil horizon, a depth qualification must be specified. In most cases it is probably most appropriate to specify a fixed depth range, either in centimeters or inches. The Bottom Depth must be greater than the Top Depth, and the Top Depth can be greater than zero. The choice of "inches" or "centimeters" only applies to the depth of soil to be evaluated. It has no influence on the units of measure the data are presented in.

When "Surface Layer" is specified as the depth qualifier, only the surface layer or horizon is considered when deriving a value for a component, but keep in mind that the thickness of the surface layer varies from component to component.

When "All Layers" is specified as the depth qualifier, all layers recorded for a component are considered when deriving the value for that component.

Whenever more than one layer or horizon is considered when deriving a value for a component, and the attribute being aggregated is a numeric attribute, a weighted average value is returned, where the weighting factor is the layer or horizon thickness.

## TABLE 3 SUMMARY SAMPLE RESULTS

#### Tiger # 202

Table 3.

| Sample                |             |                     |                    | Calcium | Magnesium | Sodium | Sulfate | CI-                       | CI-                 |
|-----------------------|-------------|---------------------|--------------------|---------|-----------|--------|---------|---------------------------|---------------------|
| Number on<br>Figure 2 | Sample Date | Depth<br>(feet bgs) | Proposed<br>Action | mg/L    | mg/L      | mg/L   | mg/Kg   | Field<br>Screens<br>(ppm) | Laboratory<br>mg/Kg |
|                       | 7/21/2017   | 0.5                 | scraped            |         |           |        |         | 22950                     |                     |
|                       | 8/30/2017   | 1                   | in-situ            | 690     | 130       | 990    | 3200    | 1062                      | 990                 |
|                       | 8/30/2017   | 2                   | in-situ            | 850     | 130       | 440    | 4600    |                           | 660                 |
|                       | 8/30/2017   | 3                   | in-situ            | 1500    | 470       | 2800   | 3800    |                           | 2500                |
| L1                    | 8/30/2017   | 4                   | in-situ            | 1700    | 550       | 3000   | 2900    | 4071                      | 4200                |
| L-I                   | 8/30/2017   | 5                   | in-situ            | 2000    | 70000     | 3600   | 2700    |                           | 5000                |
|                       | 8/30/2017   | 6                   | in-situ            | 1900    | 760       | 4400   | 2,600   | 4788                      | 4500                |
|                       | 8/30/2017   | 7                   | in-situ            | 1600    | 600       | 3300   | 4900    |                           | 3500                |
|                       | 8/30/2017   | 8                   | in-situ            | 1500    | 580       | 2900   | 5300    | 5992                      | 4300                |
|                       | 8/30/2017   | 9                   | in-situ            | 1100    | 320       | 1700   | 4800    |                           | 1900                |
|                       | 7/21/2017   | 0.5                 | scraped            |         |           |        |         | 13569                     |                     |
|                       | 8/30/2017   | 1                   | in-situ            |         |           |        |         | 1142                      |                     |
| L2                    | 8/30/2017   | 3                   | in-situ            | 720     | 100       | 480    | 2000    | 717                       | 390                 |
|                       | 7/21/2017   | 0.5                 | scraped            |         |           |        |         | 18332                     |                     |
| L3                    | 8/30/2017   | 1                   | in-situ            |         |           |        |         | 911                       |                     |
|                       | 7/21/2017   | 0.5                 | scraped            |         |           |        |         | 11130                     |                     |
| L4                    | 8/30/2017   | 1                   | in-situ            |         |           |        |         | 1027                      |                     |
|                       | 8/30/2017   | 3                   | in-situ            | 1300    | 420       | 3100   | 5400    |                           | 2100                |
|                       | 7/21/2017   | 0.5                 | scraped            |         |           |        |         | 3336                      |                     |
| L5                    | 8/30/2017   | 1                   | in-situ            | 960     | 220       | 1400   | 4400    | 1503                      | 1200                |
|                       | 7/21/2017   | 0.5                 | in-situ            |         |           |        |         | 1850                      |                     |
| L6                    | 8/30/2017   | 2                   | in-situ            | 870     | 180       | 2500   | 4100    | 1935                      | 1900                |
|                       | 8/30/2017   | 10                  | in-situ            | 890     | 220       | 1500   | 4800    |                           | 1300                |
|                       | 7/21/2017   | 0.5                 | in-situ            |         |           |        |         | <163                      |                     |
| L7                    | 8/30/2017   | 2                   | in-situ            | 1700    | 180       | 1100   | 4000    |                           | 1100                |
|                       | 7/21/2017   | 0.5                 | scraped            |         |           |        |         | 23109                     |                     |
|                       | 8/30/2017   | 1                   | in-situ            |         |           |        |         | <163                      |                     |
| L8                    | 8/30/2017   | 2                   | in-situ            | 730     | 120       | 460    | 4400    |                           | 340                 |
|                       | 8/30/2017   | 10                  | in-situ            | 1400    | 270       | 2500   | 2,000   | 3197                      | 3800                |
| L9                    | 7/21/2017   | 0.5                 | in-situ            |         |           |        |         | 1215                      |                     |
| L10                   | 7/21/2017   | 0.5                 | in-situ            |         |           |        |         | 2013                      |                     |
|                       | 8/30/2017   | 0.5                 | in-situ            | 1600    | 430       | 1400   | 760     | 2340                      | 2200                |
|                       | 8/30/2017   | 1                   | in-situ            | 1100    | 150       | 940    | 1,700   | 1448                      | 1000                |
|                       | 8/30/2017   | 2                   | in-situ            | 490     | 77        | 870    | 240     | 1061                      | 860                 |
| BG1                   | 8/30/2017   | 4                   | in-situ            | 1300    | 500       | 1400   | 2,900   | 2537                      | 1700                |
|                       | 8/30/2017   | 6                   | in-situ            | 2000    | 700       | 1800   | 1,500   | 3254                      | 2500                |
|                       | 8/30/2017   | 8                   | in-situ            | 2200    | 820       | 1500   | 1100    | 2910                      | 2900                |
|                       | 8/30/2017   | 10                  | in-situ            | 2400    | 820       | 1500   | 520     | 2738                      | 2700                |

<sup>&</sup>quot;--" = Not Analyzed

#### TABLE 4:

### SUMMARY OF BASELINE AND BACKGROUND SAMPLE RESULTS

#### **Tiger #202**

Table 4.

|               | Table 4.           |             |            |                 |         |         |                     |
|---------------|--------------------|-------------|------------|-----------------|---------|---------|---------------------|
|               | Sample             |             | Depth      |                 | Nitrate | Sulfate | CI-                 |
|               | Number on Figure 2 | Sample Date | (feet bgs) | Proposed Action | mg/L    | mg/Kg   | Laboratory<br>mg/Kg |
|               | , and the second   | 40/20/2045  | 0.5        | Dani!           |         |         | 0 0                 |
|               | L1                 | 10/20/2016  | 0.5        | Baseline        |         |         | 3200                |
| To an Malkono | L2                 | 10/20/2016  | 0.5        | Baseline        |         |         | 3600                |
| Tom Waltors   | L3                 | 10/20/2016  | 0.5        | Baseline        |         |         | 3900                |
|               | L4                 | 10/20/2016  | 0.5        | Baseline        |         |         | 2300                |
|               | L5                 | 10/20/2016  | 0.5        | Baseline        |         |         | 3000                |
|               | L1                 | 5/2/2017    | 0.5        | Baseline        |         |         | 1100                |
| Warren        | L2                 | 5/2/2017    | 0.5        | Baseline        |         |         | 120                 |
|               | L3                 | 5/2/2017    | 0.5        | Baseline        |         |         | 170                 |
|               | L4                 | 5/2/2017    | 0.5        | Baseline        |         |         | 2400                |
|               | L1                 | 1/9/2017    | 0.5        | Baseline        |         |         | 4000                |
|               | L2                 | 1/9/2017    | 0.5        | Baseline        |         |         | 3500                |
| Guitar        | L3                 | 1/9/2017    | 0.5        | Baseline        |         |         | 2200                |
|               | L4                 | 1/9/2017    | 0.5        | Baseline        |         |         | 6300                |
|               | L5                 | 1/9/2017    | 0.5        | Baseline        |         |         | 3800                |
|               | BL1                | 5/3/2016    | 0.5        | Baseline        |         |         | <20                 |
|               | BL2                | 5/3/2016    | 0.5        | Baseline        |         |         | 120                 |
| B Banker      | BL3                | 5/3/2016    | 0.5        | Baseline        |         |         | 55                  |
|               | BL4                | 5/3/2016    | 0.5        | Baseline        |         |         | 3500                |
|               | BL5                | 5/3/2016    | 0.5        | Baseline        |         |         | <20                 |
|               |                    | 6/7/2017    | 0.5        | Background      |         |         | 43                  |
|               | BG1                | 6/7/2017    | 1          | Background      |         |         | 2600                |
|               | DG1                | 6/7/2017    | 2          | Background      |         |         | 3000                |
| Paul          |                    | 6/7/2017    | 4          | Background      |         |         | 5300                |
| Paul          |                    | 6/7/2017    | 0.5        | Background      |         |         | <30                 |
|               | DC3                | 6/7/2017    | 1          | Background      |         |         | 530                 |
|               | BG2                | 6/7/2017    | 2          | Background      |         |         | 1500                |
|               |                    | 6/7/2017    | 4          | Background      |         |         | 2600                |
|               |                    | 6/12/2017   | 0.5        | Background      | 6.3     | 4800    | 24                  |
|               |                    | 6/12/2017   | 1          | Background      | <1.5    | 7700    | 1000                |
|               |                    | 6/12/2017   | 2          | Background      | 1.5     | 10000   | 3200                |
|               |                    | 6/12/2017   | 3          | Background      | 1.6     | 7800    | 4800                |
| Paul          | BGC                | 6/12/2017   | 4          | Background      | <1.5    | 9500    | 4800                |
|               |                    | 6/12/2017   | 6          | Background      | <1.5    | 5300    | 3500                |
|               |                    | 6/12/2017   | 8          | Background      | 1.6     | 8300    | 2400                |
|               |                    | 6/12/2017   | 10         | Background      | <1.5    | 7200    | 2700                |
|               |                    | 6/12/2017   | 12         | Background      | <1.5    | 7100    | 1300                |

<sup>&</sup>quot;--" = Not Analyzed

### APPENDIX A FORM C141 FINAL

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

|                                                                     |                                                       |                                             | Rele                                             | ease Notifi                                                | cation                                | and Co                                       | orrective A                                                 | ction                                | 1                                           |                                                                                                                                                      |  |  |  |  |
|---------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------|--------------------------------------------------|------------------------------------------------------------|---------------------------------------|----------------------------------------------|-------------------------------------------------------------|--------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|                                                                     |                                                       |                                             |                                                  |                                                            |                                       | <b>OPERA</b>                                 | ΓOR                                                         |                                      | Initi                                       | al Report 🛛 Final Rep                                                                                                                                |  |  |  |  |
|                                                                     |                                                       | atador Resou                                |                                                  |                                                            |                                       | Contact Catherine Green                      |                                                             |                                      |                                             |                                                                                                                                                      |  |  |  |  |
|                                                                     |                                                       | St Ste One R                                |                                                  |                                                            |                                       | Telephone No.575-623-6601                    |                                                             |                                      |                                             |                                                                                                                                                      |  |  |  |  |
| Facility Nar                                                        | ne Tiger 1                                            | 4-24S-28E I                                 | RB, #202                                         | H & #22H Pad                                               |                                       | Facility Type Oil                            |                                                             |                                      |                                             |                                                                                                                                                      |  |  |  |  |
| Surface Ow                                                          | ner Private                                           | e                                           |                                                  | Mineral (                                                  | Owner P                               | ner Private API No.30-015-44119              |                                                             |                                      |                                             |                                                                                                                                                      |  |  |  |  |
|                                                                     |                                                       |                                             |                                                  | LOC                                                        | ATION                                 | OF RE                                        | LEASE                                                       |                                      |                                             |                                                                                                                                                      |  |  |  |  |
| Unit Letter                                                         | Section                                               | Township                                    | Range                                            | Feet from the                                              |                                       | South Line                                   | Feet from the                                               | East/                                | West Line                                   | County                                                                                                                                               |  |  |  |  |
| Н                                                                   | 14                                                    | 248                                         | 28E                                              | 1796                                                       | N                                     |                                              | 356                                                         | Е                                    |                                             | Eddy                                                                                                                                                 |  |  |  |  |
|                                                                     |                                                       | Latitude32                                  | 2.220920                                         |                                                            | Lon                                   | gitude-104                                   | .0505578                                                    |                                      | NA                                          | .D83                                                                                                                                                 |  |  |  |  |
|                                                                     |                                                       |                                             |                                                  |                                                            |                                       | OF REL                                       |                                                             |                                      |                                             |                                                                                                                                                      |  |  |  |  |
| Type of Rele                                                        | ase Produce                                           | ed Water                                    |                                                  | 11/2                                                       | CILL                                  |                                              | Release 52bbls                                              |                                      | Volume I                                    | Recovered 15 bbls                                                                                                                                    |  |  |  |  |
|                                                                     |                                                       | t on line failed                            | d                                                |                                                            |                                       | Date and I                                   | Hour of Occurrence                                          | ce July                              | Date and                                    | Hour of Discovery                                                                                                                                    |  |  |  |  |
|                                                                     |                                                       |                                             |                                                  |                                                            |                                       | 6, 2017 8:5                                  |                                                             |                                      |                                             | 017 8:57am                                                                                                                                           |  |  |  |  |
| Was Immedia                                                         | ate Notice (                                          |                                             | Yes [                                            | ] No □ Not R                                               | Required                              | If YES, To                                   | Whom? Tim Gu                                                | m July                               | 6, 2017 10a                                 | um                                                                                                                                                   |  |  |  |  |
| By Whom?                                                            |                                                       |                                             |                                                  |                                                            |                                       |                                              | Iour July 6, 2017                                           |                                      |                                             |                                                                                                                                                      |  |  |  |  |
| Was a Water                                                         | course Read                                           |                                             | Yes ⊠                                            | ] No                                                       |                                       | If YES, Vo                                   | olume Impacting                                             | the Wat                              | ercourse.                                   |                                                                                                                                                      |  |  |  |  |
|                                                                     |                                                       |                                             |                                                  |                                                            |                                       |                                              |                                                             |                                      |                                             |                                                                                                                                                      |  |  |  |  |
| Replaced ring  Describe Are                                         | g gasket on                                           | zipper manifo                               | old.  Action Tal                                 | сеп.*                                                      |                                       |                                              | remediate once v                                            |                                      |                                             | clean up standing water.  ted area.                                                                                                                  |  |  |  |  |
| regulations al<br>public health<br>should their o<br>or the environ | I operators<br>or the envi<br>operations hament. In a | are required to ronment. The nave failed to | to report and acceptant adequately DCD acceptant | nd/or file certain<br>ce of a C-141 rep<br>investigate and | release no<br>ort by the<br>remediate | otifications a<br>e NMOCD m<br>e contaminati | nd perform correct<br>arked as "Final Ricon that pose a thr | ctive act<br>leport" of<br>reat to g | tions for rel<br>does not rel<br>round wate | suant to NMOCD rules and<br>eases which may endanger<br>ieve the operator of liability<br>r, surface water, human health<br>ompliance with any other |  |  |  |  |
| Signature                                                           |                                                       | 1                                           | 2                                                | _                                                          |                                       |                                              | OIL CON                                                     | SERV                                 | ATION                                       | DIVISION                                                                                                                                             |  |  |  |  |
| Printed Name                                                        | e: Casey Sn                                           | low                                         |                                                  |                                                            |                                       | Approved by Environmental Specialist:        |                                                             |                                      | ist: Ashley Maxwell                         |                                                                                                                                                      |  |  |  |  |
| Title: Manag                                                        | er Regulato                                           | ory, Environm                               | ental, & S                                       | afety                                                      |                                       | Approval Da                                  | te: 3/6/2023                                                |                                      | Expiration                                  | -                                                                                                                                                    |  |  |  |  |
| ∃-mail Addre                                                        | ess: csnow(                                           | matadorreso                                 | urces.com                                        |                                                            |                                       | Conditions o                                 | f Approval:                                                 |                                      |                                             | Attached                                                                                                                                             |  |  |  |  |
| Date: 3/29/1                                                        |                                                       | Phonets If Necess                           | ie(972) 37                                       | 71-5439                                                    |                                       |                                              |                                                             |                                      |                                             |                                                                                                                                                      |  |  |  |  |

### APPENDIX B NMOSE WELLS REPORT



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

| water right file.)              | close | d)          | ((                  | qua | rter | s a | re si | malles     | st to larg | est) ( | NAD83 UTM in | meters)         | (               | In feet)    |               |
|---------------------------------|-------|-------------|---------------------|-----|------|-----|-------|------------|------------|--------|--------------|-----------------|-----------------|-------------|---------------|
|                                 |       | POD<br>Sub- |                     |     | Q    |     |       |            |            |        |              |                 | -               | -           | Water         |
| POD Number<br>C 00738           | Code  | basin       | <b>County</b><br>ED |     |      |     |       | Tws<br>24S |            | 589673 |              | Distance<br>320 | <b>Well</b> 125 | Water<br>12 | Column<br>113 |
| C 02057                         |       | С           | ED                  | J   |      |     |       | 24S        |            | 588956 |              | 682             | 126             | 52          |               |
| C 00903                         |       | С           | ED                  |     | 2    | 1   | 13    | 248        | 28E        | 590178 | 3565575*     | 791             | 57              | 30          | 27            |
| C 00574                         |       |             | ED                  | 2   | 4    | 4   | 11    | 24S        | 28E        | 589452 | 2 3566081* ( | 854             | 200             | 20          | 180           |
| <u>C 00464</u>                  |       |             | ED                  | 2   | 2    | 1   | 13    | 24S        | 28E        | 59027  | 7 3565674* 🦣 | 925             | 111             | 28          | 83            |
| C 00329                         |       | С           | ED                  | 2   | 1    | 2   | 13    | 24S        | 28E        | 590682 | 2 3565677* 🦣 | 1295            | 95              | 30          | 65            |
| <u>C 00684</u>                  |       |             | ED                  | 2   | 1    | 2   | 13    | 24S        | 28E        | 590682 | 2 3565677* 🬗 | 1295            | 95              | 40          | 55            |
| C 01154                         |       | С           | ED                  | 2   | 1    | 2   | 13    | 24S        | 28E        | 590682 | 2 3565677* 🥊 | 1295            | 95              | 50          | 45            |
| C 00353                         | С     | С           | ED                  |     | 3    | 4   | 13    | 24S        | 28E        | 590603 | 3 3564367* 🦣 | 1424            | 2726            |             |               |
| C 00750                         |       |             | ED                  | 1   | 2    | 4   | 13    | 24S        | 28E        | 590898 | 3564871* 🦣   | 1474            | 110             |             |               |
| C 00618                         |       | С           | ED                  | 3   | 4    | 4   | 12    | 24S        | 28E        | 590880 | 3565885*     | 1558            | 80              | 40          | 40            |
| C 01082                         |       |             | ED                  | 3   | 3    | 2   | 11    | 24S        | 28E        | 588832 | 2 3566693* 🬗 | 1597            | 120             |             |               |
| C 01747                         |       |             | ED                  |     |      |     | 12    | 24S        | 28E        | 590367 | 7 3566577* 🦣 | 1622            | 176             | 139         | 37            |
| C 02524 POD2                    |       | С           | ED                  | 2   | 2    | 2   | 15    | 24S        | 28E        | 587814 | 4 3565690* 🬗 | 1716            | 90              | 11          | 79            |
| C 00983                         |       | С           | ED                  | 4   | 4    | 4   | 12    | 24S        | 28E        | 591080 | 3565885*     | 1742            | 92              | 40          | 52            |
| <u>C 00354</u>                  | С     | С           | ED                  |     | 4    | 4   | 13    | 24S        | 28E        | 59100  | 5 3564367* 🦣 | 1762            | 2739            |             |               |
| <u>C 00346</u>                  |       | С           | ED                  |     | 2    | 2   | 15    | 24S        | 28E        | 58771  | 5 3565591* 🦣 | 1789            | 90              | 32          | 58            |
| <u>C 03132</u>                  |       | С           | ED                  | 1   | 2    | 4   | 15    | 24S        | 28E        | 587616 | 3564877*     | 1883            | 90              | 19          | 71            |
| <u>C 00349</u>                  | С     | CUB         | ED                  |     | 1    | 3   | 18    | 24S        | 29E        | 59140  | 1 3564773* 🦣 | 1986            | 2734            |             |               |
| <u>C 00488</u>                  |       | С           | ED                  | 2   | 1    | 2   | 15    | 24S        | 28E        | 587412 | 2 3565688* 🦣 | 2105            | 64              | 8           | 56            |
| C 03862 POD5                    |       | CUB         | ED                  | 4   | 3    | 3   | 01    | 24S        | 28E        | 58978  | 5 3567458    | 2254            | 17              | 10          | 7             |
| C 03862 POD4                    |       | CUB         | ED                  | 3   | 3    | 3   | 01    | 24S        | 28E        | 58970  | 5 3567490 🦣  | 2276            | 30              | 10          | 20            |
| <u>C 02713</u>                  |       | С           | ED                  | 4   | 4    | 1   | 16    | 24S        | 29E        | 591633 | 3 3565944    | 2282            | 230             | 18          | 212           |
| C 03862 POD3                    |       | CUB         | ED                  | 3   | 3    | 3   | 01    | 24S        | 28E        | 58968  | 5 3567500 🦣  | 2284            | 60              | 10          | 50            |
| C 03862 POD1                    |       | CUB         | ED                  | 3   | 3    | 3   | 01    | 24S        | 28E        | 589672 | 2 3567505    | 2287            | 17              | 10          | 7             |
| C 03862 POD2                    |       | CUB         | ED                  | 3   | 3    | 3   | 01    | 24S        | 28E        | 58966  | 5 3567507 🦣  | 2289            | 30              | 10          | 20            |
| *I ITM leastion was derived for | DI 0  |             | Halm                |     |      |     |       |            |            |        |              |                 |                 |             |               |

\*UTM location was derived from PLSS - see Help

9/25/17 3:46 PM Page 1 of 3

WATER COLUMN/ AVERAGE DEPTH TO WATER

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

| water right file.)    | closed)      |       | (qua | rter | s a | re sr | malles          | st to lar | rgest)            | (NA     | AD83 UTM in me    | eters)           | (    | In feet) |        |
|-----------------------|--------------|-------|------|------|-----|-------|-----------------|-----------|-------------------|---------|-------------------|------------------|------|----------|--------|
| DOD Namelana          | POD<br>Sub-  | 01    |      | Q    |     | 0     | <b>T</b>        | D         |                   | v       | V                 | Distance         | -    | -        | Water  |
| POD Number<br>C 00890 | Code basin ( | ED ED |      |      |     |       | 1 <b>ws</b> 24S |           | 5872              | X<br>11 | <b>Y</b> 3565897* | Distance<br>2353 | 50   | water    | Column |
|                       |              |       |      |      |     |       |                 |           |                   |         | _                 |                  |      |          |        |
| C 00381               | СС           | ED    | 3    | 2    | 3   | 07    | 24S             | 29E       | 5916              | 82      | 3566297*          | 2460             | 2797 |          |        |
| C 02184               | С            | ED    | 2    | 4    | 3   | 01    | 24S             | 28E       | 5902              | 48      | 3567700*          | 2593             | 87   | 60       | 27     |
| <u>C 02244</u>        | С            | LE    | 3    | 1    | 2   | 22    | 24S             | 28E       | 5872              | 24      | 3563865*          | 2623             | 260  |          |        |
| C 03833 POD1          | С            | ED    | 2    | 1    | 2   | 26    | 24S             | 28E       | 5890 <sup>-</sup> | 14      | 3562545 🌑         | 2719             | 96   | 55       | 41     |
| <u>C 01442</u>        | С            | ED    |      | 1    | 2   | 10    | 24S             | 28E       | 5872              | 98      | 3567199* 🌕        | 2931             | 100  |          |        |
| C 00511               | С            | ED    |      | 2    | 3   | 02    | 24S             | 28E       | 5885              | 18      | 3568001*          | 2931             | 268  | 140      | 128    |
| C 04026 POD1          | CUB          | ED    | 3    | 2    | 1   | 25    | 24S             | 28E       | 5901              | 48      | 3562290 🌑         | 3014             | 190  | 90       | 100    |
| C 00962               | С            | ED    |      | 3    | 3   | 10    | 24S             | 28E       | 58650             | 05      | 3565992*          | 3059             | 63   | 9        | 54     |
| C 01237               | С            | ED    | 1    | 1    | 2   | 10    | 24S             | 28E       | 5871              | 97      | 3567298* 🌕        | 3072             | 123  |          |        |
| <u>C 00764</u>        |              | ED    | 3    | 1    | 3   | 10    | 24S             | 28E       | 5863              | 99      | 3566292* 🌕        | 3247             | 118  | 25       | 93     |
| C 03358 POD1          | С            | ED    | 1    | 4    | 1   | 26    | 24S             | 28E       | 5884              | 16      | 3562116 🌕         | 3283             | 135  |          |        |
| C 02836               | С            | ED    | 2    | 2    | 2   | 16    | 24S             | 28E       | 58620             | 03      | 3565676* 🌕        | 3294             |      | 15       |        |
| C 02186               | С            | ED    |      |      | 2   | 02    | 24S             | 28E       | 5891              | 28      | 3568606*          | 3396             | 100  | 55       | 45     |
| C 02198               | С            | ED    |      |      | 1   | 01    | 24S             | 28E       | 5899              | 40      | 3568611* 🌍        | 3417             | 78   |          |        |
| <u>C 00570</u>        | С            | ED    |      | 1    | 1   | 10    | 24S             | 28E       | 58649             | 90      | 3567195* 🌍        | 3568             | 100  | 28       | 72     |
| C 03824 POD1          | CUB          | ED    | 4    | 1    | 2   | 16    | 24S             | 28E       | 5857              | 70      | 3565578 🌍         | 3713             | 290  | 60       | 230    |
| C 03615 POD1          | CUB          | ED    | 1    | 3    | 2   | 06    | 24S             | 29E       | 5919              | 64      | 3568500 🌍         | 4116             | 60   | 36       | 24     |
| C 03615 POD2          | CUB          | ED    | 4    | 2    | 4   | 06    | 24S             | 29E       | 5926              | 61      | 3568013 🌑         | 4239             | 60   | 26       | 34     |
| C 00573               |              | ED    | 2    | 2    | 4   | 04    | 24S             | 28E       | 58618             | 88      | 3568087*          | 4350             | 250  | 35       | 215    |
| <u>C 00318</u>        | С            | ED    | 2    | 4    | 4   | 34    | 23S             | 28E       | 5878              | 11      | 3569298* 🌍        | 4394             | 150  |          |        |
| C 00857               |              | ED    | 3    | 1    | 4   | 30    | 24S             | 29E       | 5921              | 35      | 3561440* 🌕        | 4632             | 306  |          |        |
| C 03703 POD1          | С            | ED    | 1    | 2    | 1   | 09    | 24S             | 28E       | 5852              | 59      | 3567225 🌕         | 4658             | 74   | 15       | 59     |
| C 00856               |              | ED    | 1    | 2    | 4   | 30    | 24S             | 29E       | 5925              | 38      | 3561644*          | 4719             | 380  |          |        |
| C 00862               |              | ED    | 1    | 2    | 4   | 30    | 24S             | 29E       | 5925              | 38      | 3561644*          | 4719             | 155  |          |        |
| C 00513 S             | С            | ED    | 1    | 3    | 3   | 16    | 24S             | 28E       | 58480             | 02      | 3564432 🌑         | 4732             | 161  | 42       | 119    |
| C 00709               | С            | ED    | 3    | 3    | 3   | 16    | 24S             | 28E       | 58480             | 02      | 3564232*          | 4769             |      |          |        |
| <u>C 00648</u>        | С            | ED    | 2    | 2    | 2   | 17    | 248             | 28E       | 5845              | 93      | 3565644*          | 4891             | 96   | 58       | 38     |
| C 02306               | С            | ED    |      | 3    | 2   | 04    | 24S             | 28E       | 58569             | 90      | 3568382*          | 4921             | 75   | 25       | 50     |
|                       |              |       |      |      |     |       |                 |           |                   |         |                   |                  |      |          |        |

\*UTM location was derived from PLSS - see Help

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a

water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

**POD** QQQ Sub-Depth Depth Water **POD Number** Code basin County 64 16 4 Sec Tws Rng **Distance Well Water Column** X C 00463 С ED 4 4 4 17 24S 29E 594332 3564282\* 4956 256 260 4

Average Depth to Water: 35 feet

Minimum Depth: 4 feet

Maximum Depth: 140 feet

**Record Count: 56** 

**UTMNAD83 Radius Search (in meters):** 

**Easting (X):** 589466.8 **Northing (Y):** 3565226.9 **Radius:** 5000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

## APPENDIX C LABORATORY ANALYTICAL REPORTS

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-1

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-001 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF | Date Analyzed         | Batch |
|-----------------------------------|--------|-------|------|-------|----|-----------------------|-------|
| SAR SOLUBLE CATIONS               |        |       |      |       |    | Analyst               | : MED |
| Calcium                           | 690    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Magnesium                         | 130    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium                            | 990    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium Adsorption Ratio           | 9.0    | 0     |      |       | 1  | 10/16/2017 9:00:00 AM | 34390 |
| <b>EPA METHOD 300.0: ANIONS</b>   |        |       |      |       |    | Analyst               | MRA   |
| Fluoride                          | 0.41   | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 4:24:33 PM  | 34269 |
| Chloride                          | 990    | 30    | Н    | mg/Kg | 20 | 10/5/2017 5:01:47 PM  | 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20 | 10/5/2017 5:01:47 PM  | 34269 |
| Bromide                           | 0.62   | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 4:24:33 PM  | 34269 |
| Nitrogen, Nitrate (As N)          | 13     | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 4:24:33 PM  | 34269 |
| Phosphorus, Orthophosphate (As P) | ND     | 30    | Н    | mg/Kg | 20 | 10/5/2017 5:01:47 PM  | 34269 |
| Sulfate                           | 3200   | 75    | Н    | mg/Kg | 50 | 10/9/2017 8:49:01 PM  | 34269 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- $\label{eq:Jacobian} \begin{array}{ll} \mbox{\it J} & \mbox{\it Analyte detected below quantitation limits} & \mbox{\it Page 1 of 0} \end{array}$
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1710098

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported:

**CLIENT:** Souder, Miller & Associates Client Sample ID: L1-2

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-002 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF | Date Analyzed         | Batch |
|-----------------------------------|--------|-------|------|-------|----|-----------------------|-------|
| SAR SOLUBLE CATIONS               |        |       |      |       |    | Analyst               | MED   |
| Calcium                           | 850    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Magnesium                         | 130    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium                            | 440    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium Adsorption Ratio           | 3.8    | 0     |      |       | 1  | 10/16/2017 9:00:00 AM | 34390 |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |    | Analyst               | MRA   |
| Fluoride                          | 1.2    | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 5:14:12 PM  | 34269 |
| Chloride                          | 660    | 30    | Н    | mg/Kg | 20 | 10/5/2017 5:51:26 PM  | 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20 | 10/5/2017 5:51:26 PM  | 34269 |
| Bromide                           | 1.2    | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 5:14:12 PM  | 34269 |
| Nitrogen, Nitrate (As N)          | 5.9    | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 5:14:12 PM  | 34269 |
| Phosphorus, Orthophosphate (As P) | ND     | 30    | Н    | mg/Kg | 20 | 10/5/2017 5:51:26 PM  | 34269 |
| Sulfate                           | 4600   | 75    | Н    | mg/Kg | 50 | 10/9/2017 9:01:26 PM  | 34269 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: L1-3

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-003 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF  | Date Analyzed         | Batch |
|-----------------------------------|--------|-------|------|-------|-----|-----------------------|-------|
| SAR SOLUBLE CATIONS               |        |       |      |       |     | Analyst               | MED   |
| Calcium                           | 1500   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM | 34390 |
| Magnesium                         | 470    | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM | 34390 |
| Sodium                            | 2800   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM | 34390 |
| Sodium Adsorption Ratio           | 16     | 0     |      |       | 1   | 10/16/2017 9:00:00 AM | 34390 |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |     | Analyst               | MRA   |
| Fluoride                          | ND     | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 6:28:39 PM  | 34269 |
| Chloride                          | 2500   | 150   | Н    | mg/Kg | 100 | 10/9/2017 9:13:50 PM  | 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20  | 10/5/2017 6:41:03 PM  | 34269 |
| Bromide                           | 1.8    | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 6:28:39 PM  | 34269 |
| Nitrogen, Nitrate (As N)          | 1.9    | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 6:28:39 PM  | 34269 |
| Phosphorus, Orthophosphate (As P) | ND     | 30    | Н    | mg/Kg | 20  | 10/5/2017 6:41:03 PM  | 34269 |
| Sulfate                           | 3800   | 150   | Н    | mg/Kg | 100 | 10/9/2017 9:13:50 PM  | 34269 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- $\label{eq:Jacobian} \begin{array}{ll} \mbox{\it J} & \mbox{\it Analyte detected below quantitation limits} & \mbox{\it Page 3 of 0} \end{array}$
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-4

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-004 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF  | Date Analyzed          | Batch   |
|-----------------------------------|--------|-------|------|-------|-----|------------------------|---------|
| SAR SOLUBLE CATIONS               |        |       |      |       |     | Analyst                | MED     |
| Calcium                           | 1700   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| Magnesium                         | 550    | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| Sodium                            | 3000   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| Sodium Adsorption Ratio           | 16     | 0     |      |       | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| <b>EPA METHOD 300.0: ANIONS</b>   |        |       |      |       |     | Analyst                | MRA     |
| Fluoride                          | ND     | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 6:53:28 PM   | 34269   |
| Chloride                          | 4200   | 150   | Н    | mg/Kg | 100 | 10/10/2017 11:59:57 Al | M 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20  | 10/5/2017 7:05:53 PM   | 34269   |
| Bromide                           | 2.4    | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 6:53:28 PM   | 34269   |
| Nitrogen, Nitrate (As N)          | 3.5    | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 6:53:28 PM   | 34269   |
| Phosphorus, Orthophosphate (As P) | ND     | 1.5   | Н    | mg/Kg | 1   | 10/5/2017 6:53:28 PM   | 34269   |
| Sulfate                           | 2900   | 30    | Н    | mg/Kg | 20  | 10/5/2017 7:05:53 PM   | 34269   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- $\label{eq:Jacobian} \begin{array}{ll} \mbox{ Analyte detected below quantitation limits } & \mbox{Page 4 of 0} \end{array}$
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L1-5

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-005 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF  | Date Analyzed          | Batch   |
|-----------------------------------|--------|-------|------|-------|-----|------------------------|---------|
| SAR SOLUBLE CATIONS               |        |       |      |       |     | Analyst                | MED     |
| Calcium                           | 2000   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| Magnesium                         | 70000  | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| Sodium                            | 3600   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| Sodium Adsorption Ratio           | 18     | 0     |      |       | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |     | Analyst                | MRA     |
| Fluoride                          | ND     | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 7:18:17 PM   | 34269   |
| Chloride                          | 5000   | 300   | Н    | mg/Kg | 200 | 10/10/2017 12:12:21 Pf | d 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20  | 10/5/2017 7:30:41 PM   | 34269   |
| Bromide                           | 2.9    | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 7:18:17 PM   | 34269   |
| Nitrogen, Nitrate (As N)          | 5.9    | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 7:18:17 PM   | 34269   |
| Phosphorus, Orthophosphate (As P) | ND     | 1.5   | Н    | mg/Kg | 1   | 10/5/2017 7:18:17 PM   | 34269   |
| Sulfate                           | 2700   | 30    | Н    | mg/Kg | 20  | 10/5/2017 7:30:41 PM   | 34269   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: L1-6

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-006 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF  | Date Analyzed          | Batch   |
|-----------------------------------|--------|-------|------|-------|-----|------------------------|---------|
| SAR SOLUBLE CATIONS               |        |       |      |       |     | Analyst                | MED     |
| Calcium                           | 1900   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| Magnesium                         | 760    | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| Sodium                            | 4400   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| Sodium Adsorption Ratio           | 22     | 0     |      |       | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |     | Analyst                | MRA     |
| Fluoride                          | ND     | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 7:43:06 PM   | 34269   |
| Chloride                          | 4500   | 300   | Н    | mg/Kg | 200 | 10/10/2017 12:24:45 PI | M 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20  | 10/5/2017 7:55:31 PM   | 34269   |
| Bromide                           | 3.6    | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 7:43:06 PM   | 34269   |
| Nitrogen, Nitrate (As N)          | 3.4    | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 7:43:06 PM   | 34269   |
| Phosphorus, Orthophosphate (As P) | ND     | 1.5   | Н    | mg/Kg | 1   | 10/5/2017 7:43:06 PM   | 34269   |
| Sulfate                           | 2600   | 30    | Н    | mg/Kg | 20  | 10/5/2017 7:55:31 PM   | 34269   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- $\label{eq:Jacobian} \begin{array}{ll} \mbox{\it J} & \mbox{\it Analyte detected below quantitation limits} & \mbox{\it Page 6 of 0} \end{array}$
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**CLIENT:** Souder, Miller & Associates

Analytical Report
Lab Order 1710098
Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: L1-7

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-007 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF  | Date Analyzed         | Batch         |
|-----------------------------------|--------|-------|------|-------|-----|-----------------------|---------------|
| SAR SOLUBLE CATIONS               |        |       |      |       |     | Analys                | t: <b>MED</b> |
| Calcium                           | 1600   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AN | 1 34390       |
| Magnesium                         | 600    | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AN | 1 34390       |
| Sodium                            | 3300   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AN | 1 34390       |
| Sodium Adsorption Ratio           | 18     | 0     |      |       | 1   | 10/16/2017 9:00:00 AN | 1 34390       |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |     | Analys                | t: MRA        |
| Fluoride                          | 0.41   | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 8:07:55 PM  | 34269         |
| Chloride                          | 3500   | 150   | Н    | mg/Kg | 100 | 10/10/2017 12:37:10 P | M 34269       |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20  | 10/5/2017 8:20:20 PM  | 34269         |
| Bromide                           | 2.2    | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 8:07:55 PM  | 34269         |
| Nitrogen, Nitrate (As N)          | 2.3    | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 8:07:55 PM  | 34269         |
| Phosphorus, Orthophosphate (As P) | ND     | 30    | Н    | mg/Kg | 20  | 10/5/2017 8:20:20 PM  | 34269         |
| Sulfate                           | 4900   | 150   | Н    | mg/Kg | 100 | 10/10/2017 12:37:10 P | M 34269       |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**CLIENT:** Souder, Miller & Associates

Analytical Report
Lab Order 1710098
Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: L1-8

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-008 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF  | Date Analyzed         | Batch   |
|-----------------------------------|--------|-------|------|-------|-----|-----------------------|---------|
| SAR SOLUBLE CATIONS               |        |       |      |       |     | Analys                | t: MED  |
| Calcium                           | 1500   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM | 1 34390 |
| Magnesium                         | 580    | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM | 1 34390 |
| Sodium                            | 2900   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM | 1 34390 |
| Sodium Adsorption Ratio           | 16     | 0     |      |       | 1   | 10/16/2017 9:00:00 AM | 1 34390 |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |     | Analys                | t: MRA  |
| Fluoride                          | 0.51   | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 8:57:34 PM  | 34269   |
| Chloride                          | 4300   | 150   | Н    | mg/Kg | 100 | 10/10/2017 12:49:35 P | M 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20  | 10/5/2017 9:09:59 PM  | 34269   |
| Bromide                           | 2.6    | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 8:57:34 PM  | 34269   |
| Nitrogen, Nitrate (As N)          | 4.1    | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 8:57:34 PM  | 34269   |
| Phosphorus, Orthophosphate (As P) | ND     | 1.5   | Н    | mg/Kg | 1   | 10/5/2017 8:57:34 PM  | 34269   |
| Sulfate                           | 5300   | 150   | Н    | mg/Kg | 100 | 10/10/2017 12:49:35 P | M 34269 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**CLIENT:** Souder, Miller & Associates

Analytical Report
Lab Order 1710098
Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: L1-9

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-009 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF | Date Analyzed         | Batch |
|-----------------------------------|--------|-------|------|-------|----|-----------------------|-------|
| SAR SOLUBLE CATIONS               |        |       |      |       |    | Analyst:              | MED   |
| Calcium                           | 1100   | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Magnesium                         | 320    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium                            | 1700   | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium Adsorption Ratio           | 11     | 0     |      |       | 1  | 10/16/2017 9:00:00 AM | 34390 |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |    | Analyst:              | MRA   |
| Fluoride                          | 1.7    | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 9:22:23 PM  | 34269 |
| Chloride                          | 1900   | 75    | Н    | mg/Kg | 50 | 10/9/2017 10:53:07 PM | 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20 | 10/5/2017 9:34:49 PM  | 34269 |
| Bromide                           | 1.1    | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 9:22:23 PM  | 34269 |
| Nitrogen, Nitrate (As N)          | ND     | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 9:22:23 PM  | 34269 |
| Phosphorus, Orthophosphate (As P) | ND     | 30    | Н    | mg/Kg | 20 | 10/5/2017 9:34:49 PM  | 34269 |
| Sulfate                           | 4800   | 75    | Н    | mg/Kg | 50 | 10/9/2017 10:53:07 PM | 34269 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- $\label{eq:Jacobian} \begin{array}{ll} \textbf{Analyte detected below quantitation limits} & \textbf{Page 9 of 0} \end{array}$
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1710098
Date Reported:

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: L7-2

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-010 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF | Date Analyzed         | Batch |
|-----------------------------------|--------|-------|------|-------|----|-----------------------|-------|
| SAR SOLUBLE CATIONS               |        |       |      |       |    | Analyst:              | MED   |
| Calcium                           | 1700   | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Magnesium                         | 180    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium                            | 1100   | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium Adsorption Ratio           | 7.0    | 0     |      |       | 1  | 10/16/2017 9:00:00 AM | 34390 |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |    | Analyst:              | MRA   |
| Fluoride                          | ND     | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 9:47:14 PM  | 34269 |
| Chloride                          | 1100   | 75    | Н    | mg/Kg | 50 | 10/9/2017 11:05:32 PM | 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20 | 10/5/2017 9:59:39 PM  | 34269 |
| Bromide                           | 3.7    | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 9:47:14 PM  | 34269 |
| Nitrogen, Nitrate (As N)          | 6.3    | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 9:47:14 PM  | 34269 |
| Phosphorus, Orthophosphate (As P) | ND     | 30    | Н    | mg/Kg | 20 | 10/5/2017 9:59:39 PM  | 34269 |
| Sulfate                           | 4000   | 75    | Н    | mg/Kg | 50 | 10/9/2017 11:05:32 PM | 34269 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: L8-2

**Project:** Tiger **Collection Date:** 8/30/2017

**Lab ID:** 1710098-011 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF | Date Analyzed         | Batch |
|-----------------------------------|--------|-------|------|-------|----|-----------------------|-------|
| SAR SOLUBLE CATIONS               |        |       |      |       |    | Analyst:              | MED   |
| Calcium                           | 730    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Magnesium                         | 120    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium                            | 460    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium Adsorption Ratio           | 4.2    | 0     |      |       | 1  | 10/16/2017 9:00:00 AM | 34390 |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |    | Analyst:              | MRA   |
| Fluoride                          | ND     | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 10:12:03 PM | 34269 |
| Chloride                          | 340    | 30    | Н    | mg/Kg | 20 | 10/5/2017 10:24:27 PM | 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 10:12:03 PM | 34269 |
| Bromide                           | 0.47   | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 10:12:03 PM | 34269 |
| Nitrogen, Nitrate (As N)          | 2.7    | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 10:12:03 PM | 34269 |
| Phosphorus, Orthophosphate (As P) | ND     | 30    | Н    | mg/Kg | 20 | 10/5/2017 10:24:27 PM | 34269 |
| Sulfate                           | 4400   | 75    | Н    | mg/Kg | 50 | 10/9/2017 11:17:57 PM | 34269 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 11 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1710098
Date Reported:

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: L8-10

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-012 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF  | Date Analyzed         | Batch |
|-----------------------------------|--------|-------|------|-------|-----|-----------------------|-------|
| SAR SOLUBLE CATIONS               |        |       |      |       |     | Analyst:              | MED   |
| Calcium                           | 1400   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM | 34390 |
| Magnesium                         | 270    | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM | 34390 |
| Sodium                            | 2500   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM | 34390 |
| Sodium Adsorption Ratio           | 16     | 0     |      |       | 1   | 10/16/2017 9:00:00 AM | 34390 |
| <b>EPA METHOD 300.0: ANIONS</b>   |        |       |      |       |     | Analyst               | MRA   |
| Fluoride                          | 1.0    | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 10:36:52 PM | 34269 |
| Chloride                          | 3800   | 150   | Н    | mg/Kg | 100 | 10/9/2017 11:30:21 PM | 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20  | 10/5/2017 10:49:17 PM | 34269 |
| Bromide                           | 2.1    | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 10:36:52 PM | 34269 |
| Nitrogen, Nitrate (As N)          | 0.30   | 0.30  | Н    | mg/Kg | 1   | 10/5/2017 10:36:52 PM | 34269 |
| Phosphorus, Orthophosphate (As P) | ND     | 1.5   | Н    | mg/Kg | 1   | 10/5/2017 10:36:52 PM | 34269 |
| Sulfate                           | 2000   | 30    | Н    | mg/Kg | 20  | 10/5/2017 10:49:17 PM | 34269 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 12 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BG1-S

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-013 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF | Date Analyzed         | Batch |
|-----------------------------------|--------|-------|------|-------|----|-----------------------|-------|
| SAR SOLUBLE CATIONS               |        |       |      |       |    | Analyst:              | MED   |
| Calcium                           | 1600   | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Magnesium                         | 430    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium                            | 1400   | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium Adsorption Ratio           | 7.8    | 0     |      |       | 1  | 10/16/2017 9:00:00 AM | 34390 |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |    | Analyst               | MRA   |
| Fluoride                          | 0.71   | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 11:26:31 PM | 34269 |
| Chloride                          | 2200   | 75    | Н    | mg/Kg | 50 | 10/9/2017 11:42:46 PM | 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20 | 10/5/2017 11:38:55 PM | 34269 |
| Bromide                           | 3.9    | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 11:26:31 PM | 34269 |
| Nitrogen, Nitrate (As N)          | 7.8    | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 11:26:31 PM | 34269 |
| Phosphorus, Orthophosphate (As P) | ND     | 1.5   | Н    | mg/Kg | 1  | 10/5/2017 11:26:31 PM | 34269 |
| Sulfate                           | 760    | 30    | Н    | mg/Kg | 20 | 10/5/2017 11:38:55 PM | 34269 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 13 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BG1-1

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-014 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF | Date Analyzed         | Batch |
|-----------------------------------|--------|-------|------|-------|----|-----------------------|-------|
| SAR SOLUBLE CATIONS               |        |       |      |       |    | Analyst:              | MED   |
| Calcium                           | 1100   | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Magnesium                         | 150    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium                            | 940    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium Adsorption Ratio           | 7.1    | 0     |      |       | 1  | 10/16/2017 9:00:00 AM | 34390 |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |    | Analyst               | MRA   |
| Fluoride                          | ND     | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 11:51:20 PM | 34269 |
| Chloride                          | 1000   | 30    | Н    | mg/Kg | 20 | 10/6/2017 12:03:45 AM | 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 11:51:20 PM | 34269 |
| Bromide                           | 0.63   | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 11:51:20 PM | 34269 |
| Nitrogen, Nitrate (As N)          | 13     | 0.30  | Н    | mg/Kg | 1  | 10/5/2017 11:51:20 PM | 34269 |
| Phosphorus, Orthophosphate (As P) | ND     | 30    | Н    | mg/Kg | 20 | 10/6/2017 12:03:45 AM | 34269 |
| Sulfate                           | 1700   | 30    | Н    | mg/Kg | 20 | 10/6/2017 12:03:45 AM | 34269 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 14 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BG1-2

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-015 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF | Date Analyzed         | Batch |
|-----------------------------------|--------|-------|------|-------|----|-----------------------|-------|
| SAR SOLUBLE CATIONS               |        |       |      |       |    | Analyst               | MED   |
| Calcium                           | 490    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Magnesium                         | 77     | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium                            | 870    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium Adsorption Ratio           | 9.6    | 0     |      |       | 1  | 10/16/2017 9:00:00 AM | 34390 |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |    | Analyst               | MRA   |
| Fluoride                          | ND     | 0.30  | Н    | mg/Kg | 1  | 10/6/2017 12:16:10 AM | 34269 |
| Chloride                          | 860    | 30    | Н    | mg/Kg | 20 | 10/6/2017 12:28:34 AM | 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 0.30  | Н    | mg/Kg | 1  | 10/6/2017 12:16:10 AM | 34269 |
| Bromide                           | ND     | 0.30  | Н    | mg/Kg | 1  | 10/6/2017 12:16:10 AM | 34269 |
| Nitrogen, Nitrate (As N)          | 11     | 0.30  | Н    | mg/Kg | 1  | 10/6/2017 12:16:10 AM | 34269 |
| Phosphorus, Orthophosphate (As P) | ND     | 1.5   | Н    | mg/Kg | 1  | 10/6/2017 12:16:10 AM | 34269 |
| Sulfate                           | 240    | 30    | Н    | mg/Kg | 20 | 10/6/2017 12:28:34 AM | 34269 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 15 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BG1-4

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-016 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF | Date Analyzed         | Batch |
|-----------------------------------|--------|-------|------|-------|----|-----------------------|-------|
| SAR SOLUBLE CATIONS               |        |       |      |       |    | Analyst:              | MED   |
| Calcium                           | 1300   | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Magnesium                         | 500    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium                            | 1400   | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium Adsorption Ratio           | 8.2    | 0     |      |       | 1  | 10/16/2017 9:00:00 AM | 34390 |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |    | Analyst:              | MRA   |
| Fluoride                          | ND     | 0.30  | Н    | mg/Kg | 1  | 10/6/2017 12:40:58 AM | 34269 |
| Chloride                          | 1700   | 75    | Н    | mg/Kg | 50 | 10/9/2017 11:55:10 PM | 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20 | 10/6/2017 12:53:22 AM | 34269 |
| Bromide                           | 1.4    | 0.30  | Н    | mg/Kg | 1  | 10/6/2017 12:40:58 AM | 34269 |
| Nitrogen, Nitrate (As N)          | 0.74   | 0.30  | Н    | mg/Kg | 1  | 10/6/2017 12:40:58 AM | 34269 |
| Phosphorus, Orthophosphate (As P) | ND     | 1.5   | Н    | mg/Kg | 1  | 10/6/2017 12:40:58 AM | 34269 |
| Sulfate                           | 2900   | 75    | Н    | mg/Kg | 50 | 10/9/2017 11:55:10 PM | 34269 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 16 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BG1-6

 Project:
 Tiger
 Collection Date: 8/30/2017

 Lab ID:
 1710098-017
 Matrix: SOIL
 Received Date: 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF  | Date Analyzed          | Batch   |
|-----------------------------------|--------|-------|------|-------|-----|------------------------|---------|
| SAR SOLUBLE CATIONS               |        |       |      |       |     | Analyst                | : MED   |
| Calcium                           | 2000   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| Magnesium                         | 700    | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| Sodium                            | 1800   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| Sodium Adsorption Ratio           | 8.9    | 0     |      |       | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |     | Analyst                | MRA     |
| Fluoride                          | ND     | 0.30  | Н    | mg/Kg | 1   | 10/6/2017 1:05:47 AM   | 34269   |
| Chloride                          | 2500   | 150   | Н    | mg/Kg | 100 | 10/10/2017 12:07:34 AI | M 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20  | 10/6/2017 1:18:12 AM   | 34269   |
| Bromide                           | 1.9    | 0.30  | Н    | mg/Kg | 1   | 10/6/2017 1:05:47 AM   | 34269   |
| Nitrogen, Nitrate (As N)          | 0.38   | 0.30  | Н    | mg/Kg | 1   | 10/6/2017 1:05:47 AM   | 34269   |
| Phosphorus, Orthophosphate (As P) | ND     | 1.5   | Н    | mg/Kg | 1   | 10/6/2017 1:05:47 AM   | 34269   |
| Sulfate                           | 1500   | 30    | Н    | mg/Kg | 20  | 10/6/2017 1:18:12 AM   | 34269   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 17 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Tiger

**Project:** 

Analytical Report
Lab Order 1710098
Date Reported:

Collection Date: 8/30/2017

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BG1-8

**Lab ID:** 1710098-018 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF  | Date Analyzed          | Batch   |
|-----------------------------------|--------|-------|------|-------|-----|------------------------|---------|
| SAR SOLUBLE CATIONS               |        |       |      |       |     | Analyst                | : MED   |
| Calcium                           | 2200   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| Magnesium                         | 820    | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| Sodium                            | 1500   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| Sodium Adsorption Ratio           | 6.8    | 0     |      |       | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |     | Analyst                | MRA     |
| Fluoride                          | 1.6    | 0.30  | Н    | mg/Kg | 1   | 10/6/2017 1:55:24 AM   | 34269   |
| Chloride                          | 2900   | 150   | Н    | mg/Kg | 100 | 10/10/2017 12:19:59 Al | M 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20  | 10/6/2017 2:07:49 AM   | 34269   |
| Bromide                           | 2.1    | 0.30  | Н    | mg/Kg | 1   | 10/6/2017 1:55:24 AM   | 34269   |
| Nitrogen, Nitrate (As N)          | 0.49   | 0.30  | Н    | mg/Kg | 1   | 10/6/2017 1:55:24 AM   | 34269   |
| Phosphorus, Orthophosphate (As P) | ND     | 1.5   | Н    | mg/Kg | 1   | 10/6/2017 1:55:24 AM   | 34269   |
| Sulfate                           | 1100   | 30    | Н    | mg/Kg | 20  | 10/6/2017 2:07:49 AM   | 34269   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 18 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1710098
Date Reported:

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BG1-10

**Project:** Tiger **Collection Date:** 8/30/2017

**Lab ID:** 1710098-019 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF  | Date Analyzed          | Batch   |
|-----------------------------------|--------|-------|------|-------|-----|------------------------|---------|
| SAR SOLUBLE CATIONS               |        |       |      |       |     | Analyst                | MED     |
| Calcium                           | 2400   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| Magnesium                         | 820    | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| Sodium                            | 1500   | 1.0   |      | mg/L  | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| Sodium Adsorption Ratio           | 6.6    | 0     |      |       | 1   | 10/16/2017 9:00:00 AM  | 34390   |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |     | Analyst                | MRA     |
| Fluoride                          | 9.9    | 0.30  | Н    | mg/Kg | 1   | 10/6/2017 2:20:13 AM   | 34269   |
| Chloride                          | 2700   | 150   | Н    | mg/Kg | 100 | 10/10/2017 12:32:24 Al | M 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20  | 10/6/2017 2:32:38 AM   | 34269   |
| Bromide                           | 2.0    | 0.30  | Н    | mg/Kg | 1   | 10/6/2017 2:20:13 AM   | 34269   |
| Nitrogen, Nitrate (As N)          | 0.42   | 0.30  | Н    | mg/Kg | 1   | 10/6/2017 2:20:13 AM   | 34269   |
| Phosphorus, Orthophosphate (As P) | 1.6    | 1.5   | Н    | mg/Kg | 1   | 10/6/2017 2:20:13 AM   | 34269   |
| Sulfate                           | 520    | 30    | Н    | mg/Kg | 20  | 10/6/2017 2:32:38 AM   | 34269   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 19 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L2-3

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-020 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF | Date Analyzed         | Batch |
|-----------------------------------|--------|-------|------|-------|----|-----------------------|-------|
| SAR SOLUBLE CATIONS               |        |       |      |       |    | Analyst               | MED   |
| Calcium                           | 720    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Magnesium                         | 100    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium                            | 480    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34390 |
| Sodium Adsorption Ratio           | 4.5    | 0     |      |       | 1  | 10/16/2017 9:00:00 AM | 34390 |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |    | Analyst               | MRA   |
| Fluoride                          | ND     | 0.30  | Н    | mg/Kg | 1  | 10/6/2017 2:45:03 AM  | 34269 |
| Chloride                          | 390    | 30    | Н    | mg/Kg | 20 | 10/6/2017 2:57:27 AM  | 34269 |
| Nitrogen, Nitrite (As N)          | ND     | 0.30  | Н    | mg/Kg | 1  | 10/6/2017 2:45:03 AM  | 34269 |
| Bromide                           | ND     | 0.30  | Н    | mg/Kg | 1  | 10/6/2017 2:45:03 AM  | 34269 |
| Nitrogen, Nitrate (As N)          | 14     | 0.30  | Н    | mg/Kg | 1  | 10/6/2017 2:45:03 AM  | 34269 |
| Phosphorus, Orthophosphate (As P) | ND     | 30    | Н    | mg/Kg | 20 | 10/6/2017 2:57:27 AM  | 34269 |
| Sulfate                           | 2000   | 30    | Н    | mg/Kg | 20 | 10/6/2017 2:57:27 AM  | 34269 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 20 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1710098
Date Reported:

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: L5-1

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-021 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF | Date Analyzed         | Batch   |
|-----------------------------------|--------|-------|------|-------|----|-----------------------|---------|
| SAR SOLUBLE CATIONS               |        |       |      |       |    | Analys                | t: MED  |
| Calcium                           | 960    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 1 34391 |
| Magnesium                         | 220    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 1 34391 |
| Sodium                            | 1400   | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 1 34391 |
| Sodium Adsorption Ratio           | 11     | 0     |      |       | 1  | 10/16/2017 9:00:00 AM | 1 34391 |
| <b>EPA METHOD 300.0: ANIONS</b>   |        |       |      |       |    | Analys                | t: MRA  |
| Fluoride                          | ND     | 0.30  | Н    | mg/Kg | 1  | 10/9/2017 3:51:08 PM  | 34306   |
| Chloride                          | 1200   | 75    | Н    | mg/Kg | 50 | 10/10/2017 12:44:49 A | M 34306 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20 | 10/9/2017 4:03:32 PM  | 34306   |
| Bromide                           | 2.4    | 0.30  | Н    | mg/Kg | 1  | 10/9/2017 3:51:08 PM  | 34306   |
| Nitrogen, Nitrate (As N)          | 4.7    | 0.30  | Н    | mg/Kg | 1  | 10/9/2017 3:51:08 PM  | 34306   |
| Phosphorus, Orthophosphate (As P) | ND     | 30    | Н    | mg/Kg | 20 | 10/9/2017 4:03:32 PM  | 34306   |
| Sulfate                           | 4400   | 75    | Н    | mg/Kg | 50 | 10/10/2017 12:44:49 A | M 34306 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 21 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1710098
Date Reported:

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: L4-3

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-022 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF | Date Analyzed         | Batch |
|-----------------------------------|--------|-------|------|-------|----|-----------------------|-------|
| SAR SOLUBLE CATIONS               |        |       |      |       |    | Analyst:              | MED   |
| Calcium                           | 1300   | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34391 |
| Magnesium                         | 420    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34391 |
| Sodium                            | 3100   | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34391 |
| Sodium Adsorption Ratio           | 19     | 0     |      |       | 1  | 10/16/2017 9:00:00 AM | 34391 |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |    | Analyst:              | MRA   |
| Fluoride                          | ND     | 0.30  | Н    | mg/Kg | 1  | 10/9/2017 4:15:57 PM  | 34306 |
| Chloride                          | 2100   | 75    | Н    | mg/Kg | 50 | 10/10/2017 1:22:02 AM | 34306 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20 | 10/9/2017 4:28:21 PM  | 34306 |
| Bromide                           | 1.5    | 0.30  | Н    | mg/Kg | 1  | 10/9/2017 4:15:57 PM  | 34306 |
| Nitrogen, Nitrate (As N)          | 1.7    | 0.30  | Н    | mg/Kg | 1  | 10/9/2017 4:15:57 PM  | 34306 |
| Phosphorus, Orthophosphate (As P) | ND     | 30    | Н    | mg/Kg | 20 | 10/9/2017 4:28:21 PM  | 34306 |
| Sulfate                           | 5400   | 75    | Н    | mg/Kg | 50 | 10/10/2017 1:22:02 AM | 34306 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 22 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1710098
Date Reported:

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: L6-2

**Project:** Tiger Collection Date: 8/30/2017

**Lab ID:** 1710098-023 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF | Date Analyzed         | Batch |
|-----------------------------------|--------|-------|------|-------|----|-----------------------|-------|
| SAR SOLUBLE CATIONS               |        |       |      |       |    | Analyst:              | MED   |
| Calcium                           | 870    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34391 |
| Magnesium                         | 180    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34391 |
| Sodium                            | 2500   | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34391 |
| Sodium Adsorption Ratio           | 20     | 0     |      |       | 1  | 10/16/2017 9:00:00 AM | 34391 |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |    | Analyst:              | MRA   |
| Fluoride                          | 1.8    | 0.30  | Н    | mg/Kg | 1  | 10/9/2017 4:40:46 PM  | 34306 |
| Chloride                          | 1900   | 75    | Н    | mg/Kg | 50 | 10/10/2017 1:34:27 AM | 34306 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20 | 10/9/2017 4:53:11 PM  | 34306 |
| Bromide                           | 2.8    | 0.30  | Н    | mg/Kg | 1  | 10/9/2017 4:40:46 PM  | 34306 |
| Nitrogen, Nitrate (As N)          | 5.4    | 0.30  | Н    | mg/Kg | 1  | 10/9/2017 4:40:46 PM  | 34306 |
| Phosphorus, Orthophosphate (As P) | ND     | 30    | Н    | mg/Kg | 20 | 10/9/2017 4:53:11 PM  | 34306 |
| Sulfate                           | 4100   | 75    | Н    | mg/Kg | 50 | 10/10/2017 1:34:27 AM | 34306 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 23 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Souder, Miller & Associates Client Sample ID: L6-10

**Project:** Tiger **Collection Date:** 8/30/2017

**Lab ID:** 1710098-024 **Matrix:** SOIL **Received Date:** 10/3/2017 9:25:00 AM

| Analyses                          | Result | PQL ( | Qual | Units | DF | Date Analyzed         | Batch |
|-----------------------------------|--------|-------|------|-------|----|-----------------------|-------|
| SAR SOLUBLE CATIONS               |        |       |      |       |    | Analyst:              | MED   |
| Calcium                           | 890    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34391 |
| Magnesium                         | 220    | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34391 |
| Sodium                            | 1500   | 1.0   |      | mg/L  | 1  | 10/16/2017 9:00:00 AM | 34391 |
| Sodium Adsorption Ratio           | 12     | 0     |      |       | 1  | 10/16/2017 9:00:00 AM | 34391 |
| EPA METHOD 300.0: ANIONS          |        |       |      |       |    | Analyst:              | MRA   |
| Fluoride                          | 1.2    | 0.30  | Н    | mg/Kg | 1  | 10/9/2017 5:05:36 PM  | 34306 |
| Chloride                          | 1300   | 75    | Н    | mg/Kg | 50 | 10/10/2017 1:46:52 AM | 34306 |
| Nitrogen, Nitrite (As N)          | ND     | 6.0   | Н    | mg/Kg | 20 | 10/9/2017 5:18:00 PM  | 34306 |
| Bromide                           | 0.83   | 0.30  | Н    | mg/Kg | 1  | 10/9/2017 5:05:36 PM  | 34306 |
| Nitrogen, Nitrate (As N)          | 1.2    | 0.30  | Н    | mg/Kg | 1  | 10/9/2017 5:05:36 PM  | 34306 |
| Phosphorus, Orthophosphate (As P) | ND     | 30    | Н    | mg/Kg | 20 | 10/9/2017 5:18:00 PM  | 34306 |
| Sulfate                           | 4800   | 75    | Н    | mg/Kg | 50 | 10/10/2017 1:46:52 AM | 34306 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 24 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# APPENDIX D:

# LABORATORY ANALYTICAL REPORTS (BASELINE AND BACKGROUND)



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

November 16, 2016

Austin Weyant Souder, Miller & Associates 201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040

FAX

RE: Tom Waltors OrderNo.: 1611165

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/1/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

**CLIENT:** 

**Analyses** 

**Analyses** 

### **Analytical Report**

Lab Order: 1611165

**DF** Date Analyzed

**DF** Date Analyzed

Lab Order:

## Hall Environmental Analysis Laboratory, Inc.

Souder, Miller & Associates

Date Reported: 11/16/2016

1611165

**Batch ID** 

**Batch ID** 

Project: Tom Waltors

**Lab ID:** 1611165-001 **Collection Date:** 10/20/2016 10:00:00 AM

Client Sample ID: L1 Matrix: SOIL

Result

EPA METHOD 300.0: ANIONS

Chloride

Analyst: MRA

(This is a second of the second of t

**PQL Qual Units** 

**PQL Qual Units** 

- (Cilidida) (100 (11) (14) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (20) (100 (11) (14) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100) (100)

**Lab ID:** 1611165-002 **Collection Date:** 10/20/2016 10:00:00 AM

Client Sample ID: L2 Matrix: SOIL

Result

EPA METHOD 300.0: ANIONS

Chloride

Analyst: MRA

(Thioride)

Analyst: MRA

(Thioride)

(Thioride)

Analyst: MRA

(Thioride)

Analyst: MRA

(Thioride)

(Thioride)

Analyst: MRA

**Lab ID:** 1611165-003 **Collection Date:** 10/20/2016 10:00:00 AM

Client Sample ID: L3 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Chloride

Analyst: MRA

(Thioride)

MRA

(Thioride)

**Lab ID:** 1611165-004 **Collection Date:** 10/20/2016 10:00:00 AM

Client Sample ID: L4 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride

2300

150

mg/Kg

100 11/14/2016 2:01:50 PM 28450

**Lab ID:** 1611165-005 **Collection Date:** 10/20/2016 10:00:00 AM

Client Sample ID: L5 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: MRA

Chloride (3000) (150) mg/Kg (100 11/14/2016 2:14:14 PM 28450)

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 1 of 2

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1611165

16-Nov-16

**Client:** Souder, Miller & Associates

**Project:** Tom Waltors

Sample ID MB-28450 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 28450 RunNo: 38449

Prep Date: 11/3/2016 Analysis Date: 11/3/2016 SeqNo: 1200952 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID LCS-28450 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 28450 RunNo: 38449

Prep Date: 11/3/2016 Analysis Date: 11/3/2016 SeqNo: 1200953 Units: mg/Kg

**RPDLimit** SPK value SPK Ref Val %REC LowLimit %RPD Analyte Result HighLimit Qual

Chloride 14 1.5 15.00 0 94.4 110

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

| Client Name: SMA-CARLSBAD W                                                               | k Order Number: 1611165                                                                                        |                                             | RcptNo: 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Received by/date:                                                                         | 1/01/10                                                                                                        |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                           | 2016 10:00:00 AM                                                                                               | AZ                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Logged by.                                                                                | 2016 9:49:24 PM 5                                                                                              | A                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                           | 03 116                                                                                                         | V                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chain of Custody                                                                          |                                                                                                                |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1. Custody seals intact on sample bottles?                                                | Yes                                                                                                            | No                                          | Not Present ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2. Is Chain of Custody complete?                                                          | Yes 🗸                                                                                                          | No                                          | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| How was the sample delivered?                                                             | Courier                                                                                                        |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <u>Log In</u>                                                                             |                                                                                                                |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 4. Was an attempt made to cool the samples?                                               | Yes 🗸                                                                                                          | No                                          | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 5. Were all samples received at a temperature of                                          | o° C to 6.0°C Yes ✔                                                                                            | No                                          | NA .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 6. Sample(s) in proper container(s)?                                                      | Yes 🗸                                                                                                          | No                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 7. Sufficient sample volume for indicated test(s)?                                        | Yes ✓                                                                                                          | No                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 8. Are samples (except VOA and ONG) properly pr                                           | served? Yes ✓                                                                                                  | No                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 9. Was preservative added to bottles?                                                     | Yes                                                                                                            | No 🗸                                        | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 10.VOA vials have zero headspace?                                                         | Yes                                                                                                            | No ·                                        | No VOA Vials ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 11. Were any sample containers received broken?                                           | Yes                                                                                                            | No 🗸                                        | # of preserved bottles checked                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 12. Does paperwork match bottle labels?                                                   | Yes ✓                                                                                                          | No                                          | for pH:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| (Note discrepancies on chain of custody)                                                  |                                                                                                                |                                             | (<2 or >12 unless note<br>Adjusted?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 13. Are matrices correctly identified on Chain of Cu                                      | _                                                                                                              | No                                          | Adjusticu:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 14. Is it clear what analyses were requested?                                             | Yes ✓                                                                                                          | No<br>No                                    | Checked by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 15. Were all holding times able to be met?<br>(If no, notify customer for authorization.) | Yes ✔                                                                                                          | No .                                        | 0.000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Special Handling (if applicable)                                                          |                                                                                                                |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 16. Was client notified of all discrepancies with this                                    | order? Yes                                                                                                     | No                                          | NA 🗸                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Person Notified:                                                                          | Date                                                                                                           |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| By Whom:                                                                                  | Via: eMail Ph                                                                                                  | hone Fax                                    | In Person                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Regarding:                                                                                | Na handa ayan sarinin karin kari | erin di | and Angeles are with interdistributed the desiration process and interdistributed the class of the contract of |
| Client Instructions:                                                                      |                                                                                                                |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 17. Additional remarks:                                                                   |                                                                                                                |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 18. <u>Cooler Information</u> Cooler No   Temp °C   Condition   Seal                      | ntact   Seal No   Seal Date                                                                                    | Signed By                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1 4.1 Good Yes                                                                            |                                                                                                                |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| CHEUT                        | Souder   | Miller and      | Souder, Miller and Associates | □ Standard              | □ Rush               |                  | L        |             | eq.               | ANALYSIS LABORATOR | ANALYSIS                  | SIS              | 2        | BO                    | LABORATORY | ORY |           |
|------------------------------|----------|-----------------|-------------------------------|-------------------------|----------------------|------------------|----------|-------------|-------------------|--------------------|---------------------------|------------------|----------|-----------------------|------------|-----|-----------|
|                              |          |                 |                               | Project Name            | 1111                 |                  |          |             | 6                 | www.               | www.hallenvironmental.com | PIPOTI           | ental    | Com                   |            |     |           |
| Mailing Address:             | ddress:  |                 |                               | (0)                     | Waltors              | 3                |          | 4901        | 4901 Hawkins NE   | Ns N               | 1                         | pndne            | udne     | Albuquerque, NM 87109 | 109        |     |           |
| 201 S. Halagueno             | slaguenc | 0               |                               | Project #:              |                      |                  |          | 100         | Tel. 505-345-3975 | 15-39              | .52                       | Fax              | 905-3    | 505-345-4107          |            |     | Ž.        |
| Phone #:                     |          | 575-689-535     | 5351                          |                         |                      |                  |          |             |                   |                    | Ana                       | Analysis Request | sedno    | st                    |            | ŀ   |           |
| email or Fax#                | -ax#     | ucas m d        | drigitation miller com        | Project Manager         | Jer                  |                  |          |             |                   |                    |                           | os               | 9,8      | F                     | _          |     |           |
| QA/QC Package:<br>□ Standard | sckage:  |                 | ☐ Level 4 (Full Validation)   | Austin Weyant           | e e                  |                  |          |             | en (1200 - 1      |                    | _                         | ,pOq,s           | 82 PCE   |                       |            |     |           |
| Accreditation:               | tion     |                 |                               | Sampler                 | LCM                  | 5                | -        | -           | 111               | (1.40              |                           |                  | 08/      | (A                    |            |     | (M to     |
| O NELAP                      | 0        | Other           |                               |                         | N res                |                  | _        |             |                   | )S F               |                           | _                | _        |                       |            |     | (Y        |
| C EUD (1ype)                 | (adk)    |                 |                               | Sample Lemi             | emperante.           | 1000             | _        | -           |                   | роц                | _                         | _                |          |                       | _          |     | Sə        |
| Date                         | Time     | Matrix          | Sample Request ID             | Container<br>Type and # | Preservative<br>Type | HEAL NO.         | BTEX + M | BTEX + Neth | teM) H9T          | EDB (Wet           | RCRA 8 N                  |                  | 8081 Pes | 8250 (Sei             |            |     | Iddu8 niA |
| 3/2020                       | 00,01    | Š               | 17                            | 20y                     |                      | 100-             | R        | 7           |                   |                    |                           | ×                |          |                       |            | 1   |           |
| 1                            | -        | -               | 17                            |                         |                      | -002             | >        |             |                   |                    |                           | V                |          |                       | -          | 1   |           |
|                              | 5        |                 | 1,000                         |                         |                      | -003             |          |             |                   |                    |                           | 4                |          |                       |            |     |           |
| 1                            |          | -               | 17                            |                         |                      | 1,00             |          | 28          | 1                 |                    |                           | V                |          |                       |            |     |           |
| 6                            |          | 1               | 25                            | 1                       |                      | -005             | *        | -           |                   |                    |                           | ×                |          |                       |            |     | -         |
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|                              |          |                 |                               |                         |                      |                  |          | +           | -                 |                    | +                         |                  |          | +                     |            |     | -         |
|                              |          |                 |                               |                         |                      |                  |          |             |                   |                    | +                         |                  |          | $\mathbb{H}$          |            |     | 1         |
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| Deter                        | Time     | Relinquished by |                               | Received by.            | hum                  | 11 Jot / 16 10co |          | Кепагка     |                   |                    |                           |                  |          |                       |            |     |           |
| Date                         | Time     | Relinquished by | ed by:                        | Received by:            |                      | Date Time        |          |             |                   |                    |                           |                  |          |                       |            |     |           |



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 16, 2017

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: Warner OrderNo.: 1706268

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 6/6/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

#### **Analytical Report**

Lab Order: 1706268

**DF** Date Analyzed

20 6/10/2017 12:08:34 AM 32211

**Batch ID** 

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/16/2017

CLIENT: Souder, Miller & Associates Lab Order: 1706268

**Project:** Warner

**Analyses** 

Chloride

**Lab ID:** 1706268-001 **Collection Date:** 5/2/2017 11:00:00 AM

Client Sample ID: L1 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS

Chloride

Analyst: MRA

The mg/Kg S0 6/12/2017 5:12:47 PM 32211

**Lab ID:** 1706268-002 **Collection Date:** 5/2/2017 11:00:00 AM

Client Sample ID: L2 Matrix: SOIL

Result

120

EPA METHOD 300.0: ANIONS Analyst: LGT

30

**PQL Qual Units** 

Н

mg/Kg

**Lab ID:** 1706268-003 **Collection Date:** 5/2/2017 11:00:00 AM

Client Sample ID: L3 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: LGT

Chloride 170 30 H mg/Kg 20 6/10/2017 12:20:59 AM 32211

**Lab ID:** 1706268-004 **Collection Date:** 5/2/2017 11:00:00 AM

Client Sample ID: L4 Matrix: SOIL

Analyses Result PQL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: MRA

Chloride (2400) (75) H mg/Kg (50 6/12/2017 5:25:11 PM 32211

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 1 of 2

P Sample pH Not In Range

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1706268 16-Jun-17** 

Client: Souder, Miller & Associates

**Project:** Warner

Sample ID MB-32211 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 32211 RunNo: 43415

Prep Date: 6/9/2017 Analysis Date: 6/9/2017 SeqNo: 1366812 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-32211 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 32211 RunNo: 43415

Prep Date: 6/9/2017 Analysis Date: 6/9/2017 SeqNo: 1366813 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.8 90 110

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

Released to Imaging: 10/1/2024 11:13:49 AM

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

# Sample Log-In Check List

Website: www.hallenvironmental.com RcptNo: 1 Client Name: SMA-CARLSBAD Work Order Number: 1706268 Received By: Richie Eriacho 6/6/2017 10:15:00 AM 12-1 Completed By: Richie Eriacho 6/6/2017 2:19:36 PM ERC. 06/06/17 Reviewed By: Chain of Custody No 🗆 Not Present 🗹 1. Custody seals intact on sample bottles? Yes 🗌 No 🗌 Yes 🔽 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No 🗌 NA 🔲 Yes 🔽 4. Was an attempt made to cool the samples? No 🗆 NA 🗆 Yes 🗸 5. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 6. Sample(s) in proper container(s)? Yes 🗸 No 🗆 7. Sufficient sample volume for indicated test(s)? No 🗌 Yes 🗸 8. Are samples (except VOA and ONG) properly preserved? No 🗹 NA 🗌 Yes  $\square$ 9. Was preservative added to bottles? No VOA Vials 🗹 No 🗀 10. VOA vials have zero headspace? Yes 📙 No 🗹 Yes 11. Were any sample containers received broken? # of preserved bottles checked Yes 🔽 No 🗌 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 13. Are matrices correctly identified on Chain of Custody? Yes 🗸 Yes 🗹 No 🗌 14. Is it clear what analyses were requested? No 🗌 Checked by: Yes 🔽 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 No 🗌 NA 🗹 16. Was client notified of all discrepancies with this order? Person Notified: Date: Via: eMail Phone Fax By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No 2.6 Good

| Mailing Address:   W. & A. P. & Project Remail or Frank   Mailing Address:   W. & A. P. & Project Remail or Frank   Mailing Address:   W. & A. P. & Project Remail or Frank   Mailing Address:   W. & A. P. & Project Remail or Frank   M. & A. P. & Project Remail or Frank   M. & A. P. & Project Remail or Frank   M. & Project Remail or Frank   M. & M. & Project Remail or Frank   M. & M.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Mailing Address; Phone #: email or Fax#; OA/QC Package; |                             | Project Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                    |          |           | 2                | \<br>\<br>\  | TCIA         | -          |  |
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| ### Sample Request ID Time   Marrix   Sample Request ID Time   Marrix   Sample Request ID   Marrix   Marr | Mailing Address; Phone #: email or Fax#; OA/QC Package; |                             | Project Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |          |           |                  |              | 7            | S          |  |
| ### Sample Request ID Date ### Remarks    W. & L. L. C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mailing Address; Phone #: email or Fax#; OAVOC Package: |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |          |           | -                | all malled a |              |            |  |
| Project #:   Pro   | Phone #:<br>email or Fax#;<br>OA/QC Package:            |                             | Warm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7                    |          | 4004      | WWW A POLICIAN A | v.nallenvin  | onmental     | moo        |  |
| Time   Reminushing by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Phone #:<br>email or Fax#;<br>OA/QC Package:            |                             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |          | 2 3       | EDE 24E 20       | 17E - AIDU   | duerque.     | SOLVE MIN  |  |
| Checker   Chec   | email or Fax#;<br>OA/QC Package:                        |                             | au                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      |          | 5         | 2002-040-000     | Analys       | is Renne     | 24107      |  |
| Time   Reinquirity of   Container   Court      | OA/QC Package:                                          |                             | Project Manag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | jer:                 |          | (4)       | (jə              |              | (1)          |            |  |
| Time   Remingative by   Received by   Rece   | ☐ Standard                                              | ☐ Level 4 (Full Validation) | AMST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | n wey                | tw       | no seo    | səin/se          |              |              |            |  |
| Time:   Reimpulshed by:   Received by:   Time:   Reimpulshed by:   Time:     |                                                         |                             | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |          | ) Hd.     | -(t              |              |              |            |  |
| Time   Reimpulshed by:   Received by:   Received by:   Remarks:    |                                                         | ier                         | On Ice:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ğ                    | □ No     | L+        | 81               | 17           |              | ( <b>∀</b> |  |
| Time   Metrix   Sample Request ID   Type and # Type   Ty   | □ EDD (Type)                                            |                             | Sample Temp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 26                   | 2,       | 38        | t P              | slei         | səp          |            |  |
| 11 cm   Soi   L1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Time                                                    |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Preservative<br>Type | HEAL NO. | TM + X3T8 | ortiaM) H9T      | RCRA 8 Me    | ioilae9 r808 |            |  |
| 11 cm   Sci   1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | =                                                       |                             | 402                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      | 100-     |           |                  |              |              |            |  |
| 11 am 501 L3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11 pm                                                   | 1.7                         | 402                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      | 2002     |           |                  | -            | 1            |            |  |
| a.m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 11 day                                                  | 13                          | 402                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      | 1003     |           |                  |              | 1            |            |  |
| Time: Reinquished by:  Received by:  All b   17   14 to b b b b b b b b b b b b b b b b b b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 11 am                                                   | 1.4                         | 402                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      | 400-     |           |                  |              | 1            |            |  |
| Time: Relinquished by:  Received by:  A by |                                                         |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      | )        | 4         |                  |              |              |            |  |
| Time: Relinquished by:  Received by:  Received by:  Received by:  Received by:  Date Time  Date Time  Date Time  (170 APD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                         |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |          |           |                  |              |              |            |  |
| Time: Reinquished by:  2:50 Time: Reinquished by:  Received by:  Received by:  Received by:  A Socious by:  A S |                                                         |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |          |           |                  |              |              |            |  |
| Time: Reinquished by:  Received by:  Receive |                                                         |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |          |           |                  |              |              |            |  |
| Time: Reinquished by:  Received by:  Code Time   |                                                         |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |          |           |                  |              |              |            |  |
| Time: Reinoushed by:  Recognition of Sitz 1400  Time: Reinoushed by:  Coste Time  Coste Time  Coste Time  Coste Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Time                                                    | in the                      | O Constitution of the Cons |                      |          |           |                  |              |              |            |  |
| Time: Reinouished by:  [170 Ab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2,00                                                    | L. Mr                       | A STATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (                    | S/17     | Remarks:  |                  |              |              |            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Time: Reling                                            | shed by:                    | Racelived by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                      | i=       |           |                  |              |              |            |  |



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 24, 2017

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040

TEL: (5/5) 0

FAX

RE: Guitas #221 OrderNo.: 1701762

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/18/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

mule

4901 Hawkins NE

Albuquerque, NM 87109

**Batch ID** 

**Batch ID** 

#### **Analytical Report**

Lab Order: 1701762

**DF** Date Analyzed

**DF** Date Analyzed

Date Reported: 1/24/2017

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Lab Order: 1701762

Project: Guitas #221

**Analyses** 

**Analyses** 

1701762-001 **Collection Date:** 1/9/2017 7:00:00 AM Lab ID:

Matrix: SOIL Client Sample ID: L1 Result

**EPA METHOD 300.0: ANIONS** Analyst: LGT

**PQL Qual Units** 

**PQL Qual Units** 

Chloride 4000 150 mg/Kg 100 1/23/2017 1:29:23 PM 29816

Lab ID: 1701762-002 **Collection Date:** 1/9/2017 7:00:00 AM

Client Sample ID: L2 Matrix: SOIL

Result

Analyst: LGT **EPA METHOD 300.0: ANIONS** 

100 1/23/2017 1:41:48 PM 29816 Chloride 3500 150 mg/Kg

Lab ID: **Collection Date:** 1/9/2017 7:00:00 AM 1701762-003

Client Sample ID: L3 Matrix: SOIL

**POL Qual Units** Analyses Result **DF Date Analyzed Batch ID** 

**EPA METHOD 300.0: ANIONS** Analyst: LGT 2200 150 100 1/23/2017 2:19:02 PM 29816 Chloride mg/Kg

Lab ID: 1701762-004 **Collection Date:** 1/9/2017 7:00:00 AM

Client Sample ID: L4 Matrix: SOIL

**POL Qual Units** Analyses Result **DF Date Analyzed Batch ID** 

**EPA METHOD 300.0: ANIONS** Analyst: LGT

Chloride 6300 300 mg/Kg 200 1/23/2017 2:31:27 PM 29816

Lab ID: 1701762-005 **Collection Date:** 1/9/2017 7:00:00 AM

Client Sample ID: L5 Matrix: SOIL

Analyses Result **PQL Qual Units DF** Date Analyzed **Batch ID** 

**EPA METHOD 300.0: ANIONS** Analyst: LGT

Chloride 100 1/23/2017 2:43:51 PM 29816 3800 150 mg/Kg

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Level.

> D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Ε Value above quantitation range

Analyte detected below quantitation limits J Page 1 of 2

P Sample pH Not In Range

RLReporting Detection Limit

W Sample container temperature is out of limit as specified

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1701762** 

24-Jan-17

Client: Souder, Miller & Associates

**Project:** Guitas #221

Sample ID MB-29816 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 29816 RunNo: 40191

Prep Date: 1/20/2017 Analysis Date: 1/20/2017 SeqNo: 1260055 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-29816 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 29816 RunNo: 40191

Prep Date: 1/20/2017 Analysis Date: 1/20/2017 SeqNo: 1260056 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.8 90 110

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Released to Imaging: 10/1/2024 11:13:49 AM

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

| Client Name: SMA-CARLSBAD                                                                 | Work Order Number: 17017                                                                                       | 62              | RcptNo:                        | 1                    |
|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------|----------------------|
| Received by/date:                                                                         | 01/18/7                                                                                                        |                 |                                |                      |
| Logged By: Ashley Gallegos 1,                                                             | /18/2017 9:30:00 AM                                                                                            | A               |                                |                      |
| Completed By: Ashley Gallegos 1.                                                          | /18/2017 12:28:42 PM                                                                                           | A               |                                |                      |
| Reviewed By:                                                                              | 01/18/17                                                                                                       | , (             |                                |                      |
| Chain of Custody                                                                          | <u> </u>                                                                                                       |                 |                                |                      |
| 1. Custody seals intact on sample bottles?                                                | Yes                                                                                                            | □ No □          | Not Present                    |                      |
| 2. Is Chain of Custody complete?                                                          | Yes                                                                                                            | ✓ No 🗆          | Not Present                    |                      |
| 3. How was the sample delivered?                                                          | Couri                                                                                                          | <u>er</u>       |                                |                      |
| <u>Log In</u>                                                                             |                                                                                                                |                 |                                |                      |
| 4. Was an attempt made to cool the samples?                                               | Yes                                                                                                            | No 🗆            | NA []                          |                      |
| 5. Were all samples received at a temperature of                                          | >0° C to 6.0°C Yes                                                                                             | ✓ No            | NA []]                         |                      |
| 6. Sample(s) in proper container(s)?                                                      | Yes                                                                                                            | No 🗆            |                                |                      |
| 7. Sufficient sample volume for indicated test(s)?                                        | Yes                                                                                                            | ✓ No 🗍          |                                |                      |
| 8. Are samples (except VOA and ONG) properly                                              | preserved? Yes                                                                                                 | ✓ No 🗌          |                                |                      |
| 9. Was preservative added to bottles?                                                     | Yes                                                                                                            | □ No 🗹          | NA []                          |                      |
| 10.VOA vials have zero headspace?                                                         | Yes                                                                                                            | No []           | No VOA Vials 🗹                 |                      |
| 11. Were any sample containers received broken?                                           | Yes                                                                                                            | □ No 🗹          |                                |                      |
| 42.5                                                                                      |                                                                                                                | r= [=]          | # of preserved bottles checked |                      |
| 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)          | Yes                                                                                                            | ✓ No L          | for pH:(<2.0                   | or >12 unless noted) |
| 13. Are matrices correctly identified on Chain of Cu                                      | ustody? Yes                                                                                                    | No 🗆            | Adjusted?                      |                      |
| 14. Is it clear what analyses were requested?                                             | Yes                                                                                                            | ✓ No 🗌          |                                |                      |
| 15. Were all holding times able to be met?<br>(If no, notify customer for authorization.) | Yes i                                                                                                          | <b>✓</b> No L   | Checked by:                    |                      |
|                                                                                           |                                                                                                                |                 |                                |                      |
| Special Handling (if applicable)                                                          |                                                                                                                |                 |                                |                      |
| 16. Was client notified of all discrepancies with this                                    | order? Yes                                                                                                     | No              | NA 🗹                           | 1                    |
| Person Notified:                                                                          | Date                                                                                                           |                 | ¥                              |                      |
| By Whom:                                                                                  | Via: [்] eMail                                                                                                 | I [∐Phone [∐Fax | ( [] In Person                 |                      |
| Regarding:                                                                                |                                                                                                                |                 |                                |                      |
| Client Instructions:                                                                      |                                                                                                                | <del></del>     |                                | ]                    |
| 17. Additional remarks:                                                                   |                                                                                                                |                 |                                |                      |
| 18. Cooler Information                                                                    | و العامل الع | l a             | 1                              |                      |
| Cooler No Temp °C Condition Seal 1 2.0 Good Yes                                           | Intact   Seal No   Seal Date                                                                                   | e Signed By     | -                              |                      |
|                                                                                           | was a second |                 |                                |                      |

Page 1 of 1

| HALL ENVIRONMENTAL      | ANALYSIS LABORATORY | www.hallenvironmental.com | 4901 Hawkins NE - Albuquerque, NM 87109 | Fax 505-345-4107  | Analysis Request |                  |                             | °, 808 \ 30 (A            | OV-                 | ACRA 8 Me<br>B081 Pestio<br>8081 Pestio<br>8260B (VOA<br>8270 (Semi | ×         | ×    | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 7    | <i>y</i> |          |  |  |                           |              |
|-------------------------|---------------------|---------------------------|-----------------------------------------|-------------------|------------------|------------------|-----------------------------|---------------------------|---------------------|---------------------------------------------------------------------|-----------|------|---------------------------------------|------|----------|----------|--|--|---------------------------|--------------|
|                         | ANAL                | www.hali                  | 4901 Hawkins NE -                       | Tel. 505-345-3975 |                  | (ʎlu             | (Gas o                      | + TPH<br>3O \ DI<br>18:1) | 9 P9<br>9 4.<br>(CE | BTEX + MT TPH (Metho TPH (Metho                                     |           |      |                                       |      |          |          |  |  | Remarks:                  |              |
| ne:                     | □ Rush              |                           | ta #221                                 |                   |                  | -                | Waysh                       | Yes INO                   | 3.0-1.0CF           | ative                                                               | 100-      | 690- | -003                                  | 700- | -005     |          |  |  | Jose Time     [18 17 0930 | Date Time    |
| Turn-Around Time:       | ☐ Standard          | Project Name:             | 1<br>1<br>2                             | Project #:        | ļ                | Project Manager: | A15tm                       | Sampler: LC               | Sample Temperature: | Container Pr                                                        | 101       |      |                                       |      | "        | 1        |  |  | Received by:              | Received by: |
| Chain-of-Custody Record | (albad              | -                         |                                         |                   |                  |                  | ☐ Level 4 (Full Validation) |                           |                     | Sample Request ID                                                   | 17        | 77   | 73                                    | 7    | 57       |          |  |  | of par                    | d by:        |
| ain-of-Cus              | SM4-                |                           | Idress:                                 |                   |                  | ax#:             | ä                           |                           | 1                   | Time Matrix                                                         | 1.00 50,0 |      |                                       |      |          | <b>A</b> |  |  | Time: Relinquished by     |              |
| ວັ                      | Client:             |                           | Mailing Address:                        |                   | Phone #:         | email or Fax#:   | QA/QC Package:              | Accreditation             | ☐ FDD (Tvne)        | Date                                                                | 1-7-16 T  |      |                                       | 2    | 2        |          |  |  | Date: Ti                  | Date:        |



Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

Hall Environmental Analysis Laboratory

4901 Hawkins NE

May 12, 2016

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: B Banker OrderNo.: 1605079

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 5/3/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

mule

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/12/2016

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BL-1

 Project:
 B Banker
 Collection Date: 4/29/2016 12:00:00 PM

 Lab ID:
 1605079-001
 Matrix: SOIL
 Received Date: 5/3/2016 9:40:00 AM

| Analyses                        | Result      | PQL (  | Qual | Units | DF | Date Analyzed        | Batch         |
|---------------------------------|-------------|--------|------|-------|----|----------------------|---------------|
| EPA METHOD 300.0: ANIONS        |             |        |      |       |    | Analys               | t: LGT        |
| Chloride                        | ND          | 30     |      | mg/Kg | 20 | 5/9/2016 1:49:28 PM  | 25197         |
| EPA METHOD 8015M/D: DIESEL RANG | GE ORGANICS | 1      |      |       |    | Analys               | t: <b>KJH</b> |
| Diesel Range Organics (DRO)     | ND          | 9.9    |      | mg/Kg | 1  | 5/6/2016 6:49:57 PM  | 25139         |
| Surr: DNOP                      | 21.1        | 70-130 | S    | %Rec  | 1  | 5/6/2016 6:49:57 PM  | 25139         |
| EPA METHOD 8015D: GASOLINE RAN  | IGE         |        |      |       |    | Analys               | t: NSB        |
| Gasoline Range Organics (GRO)   | ND          | 4.9    |      | mg/Kg | 1  | 5/4/2016 12:04:04 PM | 25130         |
| Surr: BFB                       | 95.0        | 80-120 |      | %Rec  | 1  | 5/4/2016 12:04:04 PM | 25130         |
| EPA METHOD 8021B: VOLATILES     |             |        |      |       |    | Analys               | t: NSB        |
| Methyl tert-butyl ether (MTBE)  | ND          | 0.099  |      | mg/Kg | 1  | 5/4/2016 12:04:04 PM | 25130         |
| Benzene                         | ND          | 0.025  |      | mg/Kg | 1  | 5/4/2016 12:04:04 PM | 25130         |
| Toluene                         | ND          | 0.049  |      | mg/Kg | 1  | 5/4/2016 12:04:04 PM | 25130         |
| Ethylbenzene                    | ND          | 0.049  |      | mg/Kg | 1  | 5/4/2016 12:04:04 PM | 25130         |
| Xylenes, Total                  | ND          | 0.099  |      | mg/Kg | 1  | 5/4/2016 12:04:04 PM | 25130         |
| Surr: 4-Bromofluorobenzene      | 95.7        | 80-120 |      | %Rec  | 1  | 5/4/2016 12:04:04 PM | 25130         |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 5/12/2016

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BL-2

 Project:
 B Banker
 Collection Date: 4/29/2016 12:00:00 PM

 Lab ID:
 1605079-002
 Matrix: SOIL
 Received Date: 5/3/2016 9:40:00 AM

| Analyses                        | Result     | PQL (  | )ual | Units | DF | Date Analyzed        | Batch |
|---------------------------------|------------|--------|------|-------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS        |            |        |      |       |    | Analyst              | : LGT |
| Chloride                        | 120        | 30     |      | mg/Kg | 20 | 5/9/2016 2:26:42 PM  | 25197 |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS |        |      |       |    | Analyst              | : KJH |
| Diesel Range Organics (DRO)     | ND         | 9.9    |      | mg/Kg | 1  | 5/6/2016 7:11:48 PM  | 25139 |
| Surr: DNOP                      | 14.6       | 70-130 | S    | %Rec  | 1  | 5/6/2016 7:11:48 PM  | 25139 |
| EPA METHOD 8015D: GASOLINE RANG | E          |        |      |       |    | Analyst              | : NSB |
| Gasoline Range Organics (GRO)   | ND         | 4.8    |      | mg/Kg | 1  | 5/4/2016 10:50:01 PM | 25130 |
| Surr: BFB                       | 95.7       | 80-120 |      | %Rec  | 1  | 5/4/2016 10:50:01 PM | 25130 |
| EPA METHOD 8021B: VOLATILES     |            |        |      |       |    | Analyst              | : NSB |
| Methyl tert-butyl ether (MTBE)  | ND         | 0.096  |      | mg/Kg | 1  | 5/4/2016 10:50:01 PM | 25130 |
| Benzene                         | ND         | 0.024  |      | mg/Kg | 1  | 5/4/2016 10:50:01 PM | 25130 |
| Toluene                         | ND         | 0.048  |      | mg/Kg | 1  | 5/4/2016 10:50:01 PM | 25130 |
| Ethylbenzene                    | ND         | 0.048  |      | mg/Kg | 1  | 5/4/2016 10:50:01 PM | 25130 |
| Xylenes, Total                  | ND         | 0.096  |      | mg/Kg | 1  | 5/4/2016 10:50:01 PM | 25130 |
| Surr: 4-Bromofluorobenzene      | 96.5       | 80-120 |      | %Rec  | 1  | 5/4/2016 10:50:01 PM | 25130 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 5/12/2016

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BL-3

 Project:
 B Banker
 Collection Date: 4/29/2016 12:00:00 PM

 Lab ID:
 1605079-003
 Matrix: SOIL
 Received Date: 5/3/2016 9:40:00 AM

| Analyses                        | Result      | PQL (  | Qual | Units | DF | Date Analyzed        | Batch         |
|---------------------------------|-------------|--------|------|-------|----|----------------------|---------------|
| EPA METHOD 300.0: ANIONS        |             |        |      |       |    | Analyst              | : LGT         |
| Chloride                        | 55          | 30     |      | mg/Kg | 20 | 5/9/2016 2:39:06 PM  | 25197         |
| EPA METHOD 8015M/D: DIESEL RANG | GE ORGANICS |        |      |       |    | Analyst              | t: <b>KJH</b> |
| Diesel Range Organics (DRO)     | ND          | 9.8    |      | mg/Kg | 1  | 5/6/2016 7:33:46 PM  | 25139         |
| Surr: DNOP                      | 9.41        | 70-130 | S    | %Rec  | 1  | 5/6/2016 7:33:46 PM  | 25139         |
| EPA METHOD 8015D: GASOLINE RAN  | IGE         |        |      |       |    | Analyst              | t: NSB        |
| Gasoline Range Organics (GRO)   | ND          | 4.7    |      | mg/Kg | 1  | 5/4/2016 11:13:30 PM | 25130         |
| Surr: BFB                       | 97.1        | 80-120 |      | %Rec  | 1  | 5/4/2016 11:13:30 PM | 25130         |
| EPA METHOD 8021B: VOLATILES     |             |        |      |       |    | Analyst              | t: NSB        |
| Methyl tert-butyl ether (MTBE)  | ND          | 0.093  |      | mg/Kg | 1  | 5/4/2016 11:13:30 PM | 25130         |
| Benzene                         | ND          | 0.023  |      | mg/Kg | 1  | 5/4/2016 11:13:30 PM | 25130         |
| Toluene                         | ND          | 0.047  |      | mg/Kg | 1  | 5/4/2016 11:13:30 PM | 25130         |
| Ethylbenzene                    | ND          | 0.047  |      | mg/Kg | 1  | 5/4/2016 11:13:30 PM | 25130         |
| Xylenes, Total                  | ND          | 0.093  |      | mg/Kg | 1  | 5/4/2016 11:13:30 PM | 25130         |
| Surr: 4-Bromofluorobenzene      | 98.6        | 80-120 |      | %Rec  | 1  | 5/4/2016 11:13:30 PM | 25130         |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 5/12/2016

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BL-4

 Project:
 B Banker
 Collection Date: 4/29/2016 12:00:00 PM

 Lab ID:
 1605079-004
 Matrix: SOIL
 Received Date: 5/3/2016 9:40:00 AM

| Analyses                        | Result      | PQL Q  | ual | Units | DF  | Date Analyzed        | Batch |
|---------------------------------|-------------|--------|-----|-------|-----|----------------------|-------|
| EPA METHOD 300.0: ANIONS        |             |        |     |       |     | Analyst              | : LGT |
| Chloride                        | 3500        | 150    |     | mg/Kg | 100 | 5/11/2016 3:17:06 AM | 25197 |
| EPA METHOD 8015M/D: DIESEL RANG | GE ORGANICS |        |     |       |     | Analyst              | : KJH |
| Diesel Range Organics (DRO)     | ND          | 9.6    |     | mg/Kg | 1   | 5/6/2016 7:55:39 PM  | 25139 |
| Surr: DNOP                      | 9.15        | 70-130 | S   | %Rec  | 1   | 5/6/2016 7:55:39 PM  | 25139 |
| EPA METHOD 8015D: GASOLINE RAN  | IGE         |        |     |       |     | Analyst              | : NSB |
| Gasoline Range Organics (GRO)   | ND          | 4.8    |     | mg/Kg | 1   | 5/5/2016 12:47:24 AM | 25130 |
| Surr: BFB                       | 94.2        | 80-120 |     | %Rec  | 1   | 5/5/2016 12:47:24 AM | 25130 |
| EPA METHOD 8021B: VOLATILES     |             |        |     |       |     | Analyst              | : NSB |
| Methyl tert-butyl ether (MTBE)  | ND          | 0.095  |     | mg/Kg | 1   | 5/5/2016 12:47:24 AM | 25130 |
| Benzene                         | ND          | 0.024  |     | mg/Kg | 1   | 5/5/2016 12:47:24 AM | 25130 |
| Toluene                         | ND          | 0.048  |     | mg/Kg | 1   | 5/5/2016 12:47:24 AM | 25130 |
| Ethylbenzene                    | ND          | 0.048  |     | mg/Kg | 1   | 5/5/2016 12:47:24 AM | 25130 |
| Xylenes, Total                  | ND          | 0.095  |     | mg/Kg | 1   | 5/5/2016 12:47:24 AM | 25130 |
| Surr: 4-Bromofluorobenzene      | 95.3        | 80-120 |     | %Rec  | 1   | 5/5/2016 12:47:24 AM | 25130 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## **Analytical Report**Lab Order **1605079**

Date Reported: 5/12/2016

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BL-5

 Project:
 B Banker
 Collection Date: 4/29/2016 12:00:00 PM

 Lab ID:
 1605079-005
 Matrix: SOIL
 Received Date: 5/3/2016 9:40:00 AM

| Analyses                        | Result      | PQL (  | )ual | Units | DF | Date Analyzed       | Batch         |
|---------------------------------|-------------|--------|------|-------|----|---------------------|---------------|
| EPA METHOD 300.0: ANIONS        |             |        |      |       |    | Analys              | t: <b>LGT</b> |
| Chloride                        | ND          | 30     |      | mg/Kg | 20 | 5/9/2016 3:03:54 PM | 25197         |
| EPA METHOD 8015M/D: DIESEL RANG | GE ORGANICS | ;      |      |       |    | Analys              | t: <b>KJH</b> |
| Diesel Range Organics (DRO)     | ND          | 9.8    |      | mg/Kg | 1  | 5/6/2016 8:17:38 PM | 25139         |
| Surr: DNOP                      | 8.53        | 70-130 | S    | %Rec  | 1  | 5/6/2016 8:17:38 PM | 25139         |
| EPA METHOD 8015D: GASOLINE RAN  | IGE         |        |      |       |    | Analys              | t: NSB        |
| Gasoline Range Organics (GRO)   | ND          | 4.6    |      | mg/Kg | 1  | 5/5/2016 1:10:55 AM | 25130         |
| Surr: BFB                       | 95.3        | 80-120 |      | %Rec  | 1  | 5/5/2016 1:10:55 AM | 25130         |
| EPA METHOD 8021B: VOLATILES     |             |        |      |       |    | Analys              | t: NSB        |
| Methyl tert-butyl ether (MTBE)  | ND          | 0.092  |      | mg/Kg | 1  | 5/5/2016 1:10:55 AM | 25130         |
| Benzene                         | ND          | 0.023  |      | mg/Kg | 1  | 5/5/2016 1:10:55 AM | 25130         |
| Toluene                         | ND          | 0.046  |      | mg/Kg | 1  | 5/5/2016 1:10:55 AM | 25130         |
| Ethylbenzene                    | ND          | 0.046  |      | mg/Kg | 1  | 5/5/2016 1:10:55 AM | 25130         |
| Xylenes, Total                  | ND          | 0.092  |      | mg/Kg | 1  | 5/5/2016 1:10:55 AM | 25130         |
| Surr: 4-Bromofluorobenzene      | 96.3        | 80-120 |      | %Rec  | 1  | 5/5/2016 1:10:55 AM | 25130         |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 8 % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1605079** 

12-May-16

Client: Souder, Miller & Associates

**Project:** B Banker

Sample ID MB-25197 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 25197 RunNo: 34101

Prep Date: 5/6/2016 Analysis Date: 5/9/2016 SeqNo: 1051147 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-25197 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 25197 RunNo: 34101

Prep Date: 5/6/2016 Analysis Date: 5/9/2016 SeqNo: 1051148 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.4 90 110

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Released to Imaging: 10/1/2024 11:13:49 AM

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **1605079** 

12-May-16

Client: Souder, Miller & Associates

**Project:** B Banker

Sample ID MB-25139 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 25139 RunNo: 34001

Prep Date: 5/4/2016 Analysis Date: 5/5/2016 SeqNo: 1047876 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Surr: DNOP 7.4 10.00 74.0 70 130

Sample ID 1605058-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BatchQC Batch ID: 25139 RunNo: 34001

Prep Date: 5/4/2016 Analysis Date: 5/5/2016 SeqNo: 1048316 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 49 10 50.05 0 97.0 33.9 141

Surr: DNOP 4.1 5.005 81.4 70 130

Sample ID 1605058-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BatchQC Batch ID: 25139 RunNo: 34001

Prep Date: 5/4/2016 Analysis Date: 5/5/2016 SeqNo: 1048317 Units: mg/Kg

LowLimit %RPD **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC HighLimit Qual Diesel Range Organics (DRO) 49 10 50.20 96.7 33.9 141 0.0323 20 Surr: DNOP 4.0 79.7 70 0 5.020 130

Sample ID LCS-25139 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 25139 RunNo: 34001

Prep Date: 5/4/2016 Analysis Date: 5/5/2016 SeqNo: 1048346 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 46 10 50.00 92.4 65.8 136 Surr: DNOP 3.7 5.000 74.0 70 130

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

imits Page 7 of 10

P Sample pH Not In Range

RL Reporting Detection Limit

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1605079** 

12-May-16

Client: Souder, Miller & Associates

**Project:** B Banker

Sample ID MB-25130 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 25130 RunNo: 33977

Prep Date: 5/3/2016 Analysis Date: 5/4/2016 SeqNo: 1047281 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 910 1000 91.4 80 120

Sample ID LCS-25130 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 25130 RunNo: 33977

Prep Date: 5/3/2016 Analysis Date: 5/4/2016 SeqNo: 1047282 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 0 86.8 80 120

Surr: BFB 970 1000 97.2 80 120

Sample ID 1605079-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BL-1** Batch ID: **25130** RunNo: **33977** 

Prep Date: 5/3/2016 Analysis Date: 5/4/2016 SeqNo: 1047284 Units: mg/Kg

%REC %RPD **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val LowLimit HighLimit Qual Gasoline Range Organics (GRO) 26 5.0 24.98 102 59.3 143

 Gasoline Range Organics (GRO)
 26
 5.0
 24.98
 0
 102
 59.3
 143

 Surr: BFB
 1000
 999.0
 101
 80
 120

Sample ID 1605079-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BL-1** Batch ID: **25130** RunNo: **33977** 

Prep Date: 5/3/2016 Analysis Date: 5/4/2016 SeqNo: 1047285 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 27 5.0 24.78 107 59.3 143 4.02 20 Λ Surr: BFB 1000 991.1 103 80 120 0 0

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

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#### Hall Environmental Analysis Laboratory, Inc.

0.93

0.93

WO#: 1605079

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12-May-16

**Client:** Souder, Miller & Associates

**Project:** B Banker

Surr: 4-Bromofluorobenzene

Surr: 4-Bromofluorobenzene

Sample ID MB-25130 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

1.000

1.000

Client ID: **PBS** Batch ID: 25130 RunNo: 33977

Analysis Date: 5/4/2016 Prep Date: 5/3/2016 SeqNo: 1047315 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Methyl tert-butyl ether (MTBE) 0.10 ND Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

92.9

93.4

80

80

120

120

Sample ID LCS-25130 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 25130 RunNo: 33977 Prep Date: 5/3/2016 Analysis Date: 5/4/2016 SeqNo: 1047316 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Methyl tert-butyl ether (MTBE) 0.95 0.10 1.000 95.3 61 143 0.025 1.000 0 100 75.3 Benzene 1.0 123 0 Toluene 0.93 0.050 1.000 93.3 80 124 0 88.0 Ethylbenzene 0.88 0.050 1.000 82.8 121 Xylenes, Total 0.10 3.000 0 87.2 83.9 122 2.6

| Sample ID 1605082-001AMS       | SampT      | Гуре: МS          | 3         | Tes         | tCode: E | PA Method | 8021B: Volat | tiles |          |      |
|--------------------------------|------------|-------------------|-----------|-------------|----------|-----------|--------------|-------|----------|------|
| Client ID: BatchQC             | Batch      | h ID: <b>25</b> ′ | 130       | R           | RunNo: 3 | 3977      |              |       |          |      |
| Prep Date: 5/3/2016            | Analysis D | )ate: <b>5/</b> - | 4/2016    | S           | SeqNo: 1 | 047319    | Units: mg/K  | ζg    |          |      |
| Analyte                        | Result     | PQL               | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit    | %RPD  | RPDLimit | Qual |
| Methyl tert-butyl ether (MTBE) | 0.98       | 0.098             | 0.9775    | 0           | 99.8     | 69.2      | 128          |       |          |      |
| Benzene                        | 1.1        | 0.024             | 0.9775    | 0           | 108      | 71.5      | 122          |       |          |      |
| Toluene                        | 0.99       | 0.049             | 0.9775    | 0           | 101      | 71.2      | 123          |       |          |      |
| Ethylbenzene                   | 0.95       | 0.049             | 0.9775    | 0           | 96.8     | 75.2      | 130          |       |          |      |
| Xylenes, Total                 | 2.8        | 0.098             | 2.933     | 0           | 96.4     | 72.4      | 131          |       |          |      |
| Surr: 4-Bromofluorobenzene     | 0.94       |                   | 0.9775    |             | 96.4     | 80        | 120          |       |          |      |

| Sample ID 1605082-001AMSE      | SampT       | ype: <b>MS</b> | SD        | Tes         | tCode: El | PA Method | 8021B: Volat | iles  |          |      |
|--------------------------------|-------------|----------------|-----------|-------------|-----------|-----------|--------------|-------|----------|------|
| Client ID: BatchQC             | Batch       | ID: <b>25</b>  | 130       | R           | RunNo: 3  | 3977      |              |       |          |      |
| Prep Date: 5/3/2016            | Analysis Da | ate: <b>5/</b> | 4/2016    | S           | SeqNo: 1  | 047320    | Units: mg/K  | (g    |          |      |
| Analyte                        | Result      | PQL            | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit    | %RPD  | RPDLimit | Qual |
| Methyl tert-butyl ether (MTBE) | 0.89        | 0.099          | 0.9901    | 0           | 90.3      | 69.2      | 128          | 8.72  | 20       |      |
| Benzene                        | 0.98        | 0.025          | 0.9901    | 0           | 99.2      | 71.5      | 122          | 7.34  | 20       |      |
| Toluene                        | 0.96        | 0.050          | 0.9901    | 0           | 96.7      | 71.2      | 123          | 2.87  | 20       |      |
| Ethylbenzene                   | 0.95        | 0.050          | 0.9901    | 0           | 96.0      | 75.2      | 130          | 0.454 | 20       |      |

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Released to Imaging: 10/1/2024 11:13:49 AM

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1605079

12-May-16

Client: Souder, Miller & Associates

**Project:** B Banker

Sample ID 1605082-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: BatchQC Batch ID: 25130 RunNo: 33977

Prep Date: 5/3/2016 Analysis Date: 5/4/2016 SegNo: 1047320 Units: mg/Kg

| Prep Date. 3/3/2016        | Allalysis D | ale. 31 | 4/2010    | 3           | eqino. I | 047320   | Units. Ing/r | <b>v</b> g |          |      |
|----------------------------|-------------|---------|-----------|-------------|----------|----------|--------------|------------|----------|------|
| Analyte                    | Result      | PQL     | SPK value | SPK Ref Val | %REC     | LowLimit | HighLimit    | %RPD       | RPDLimit | Qual |
| Xylenes, Total             | 2.8         | 0.099   | 2.970     | 0           | 95.3     | 72.4     | 131          | 0.0491     | 20       |      |
| Surr: 4-Bromofluorobenzene | 1.0         |         | 0.9901    |             | 101      | 80       | 120          | 0          | 0        |      |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Released to Imaging: 10/1/2024 11:13:49 AM

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 305-345-4107 Website: www.hallenvironmental.com

## Sample Log-In Check List

| Client Name: SMA-CARLSBAD                                                               | Work Order Number         | 1605079   |             | ReptNo: 1                         |             |
|-----------------------------------------------------------------------------------------|---------------------------|-----------|-------------|-----------------------------------|-------------|
| Received by/date:                                                                       | 05/3/12                   |           |             |                                   |             |
| Legged By: Lindsay Mangin                                                               | 5/3/2016 9:40:00 AM       |           | of 4things  |                                   |             |
| Completed By Lindsay, Mangin                                                            | 5/3/2016 1:33;11 PM       |           | A Little    |                                   |             |
| Reviewed By:                                                                            | 050311                    | İ         | 000         |                                   |             |
| Chain of Custody                                                                        | 100/10                    | 1         |             |                                   |             |
| Custody seals intact on sample bottles                                                  | 7                         | Yes 🗌     | No 🗆        | Not Present 🗸                     |             |
| 2 Is Chain of Custody complete?                                                         |                           | Yes V     | No 🗆        | Not Present                       |             |
| 3 How was the sample delivered?                                                         |                           | Couner    | -1-1        |                                   |             |
| Log In                                                                                  |                           |           |             |                                   |             |
| 4. Was an attempt made to cool the san                                                  | ples?                     | Yes V     | No 🗌        | NA 🗆                              |             |
| 5. Were all samples received at a tempe                                                 | rature of >0° C to 6.0°C  | Yes 🗸     | No 🗆        | NA 🗆                              |             |
| 6. Sample(s) in proper container(s)?                                                    |                           | Yes 🗸     | No 🗔        |                                   |             |
| 7. Sufficient sample volume for indicated                                               | test(s)?                  | Yes V     | Na 🗀        |                                   |             |
| 8. Are samples (except VOA and ONG) p                                                   | roperly preserved?        | Yes 🗸     | No.         |                                   |             |
| 9. Was preservative added to bottles?                                                   |                           | Yes       | No 🗸        | NA 🗆                              |             |
| 10. VOA vials have zero headspace?                                                      |                           | Yes 🗌     | No 🗆        | No VOA Vials 🔽                    |             |
| 11, Word any sample containers received                                                 | broken?                   | Yes 🗌     | No V        | W.F.Co.                           |             |
|                                                                                         |                           |           |             | # of preserved<br>bottles checked |             |
| 12. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custor       | teV.                      | Yes Y     | No          | for pH:<br>(<2 or >12 un          | less noted) |
| 13. Are matrices correctly identified on Ch                                             |                           | Yes V     | No 🗌        | Adjusted?                         | Cas House   |
| 14, Is it clear what analyses were requeste                                             |                           | Yes 🗸     | No 🗆        |                                   |             |
| 15. Were all holding times able to be met?<br>(If no, notify customer for authorization |                           | Yes 🗸     | No.         | Checked by                        |             |
| Special Handling (if applicable)                                                        |                           |           |             |                                   |             |
| 16. Was client notified of all discrepancies                                            | with this order?          | Yes 🗌     | No 🗌        | NA 🗹                              |             |
| Person Notified:                                                                        | Date                      |           |             |                                   |             |
| By Whom:                                                                                | Via:                      | eMail     | Phone E Fax | In Person                         |             |
| Regarding:                                                                              |                           |           |             |                                   |             |
| Client Instructions:                                                                    |                           |           |             |                                   |             |
| 17. Additional remarks:                                                                 |                           |           |             |                                   |             |
| 18. Cooler Information                                                                  |                           |           |             |                                   |             |
| Cooler No Temp °C Condition                                                             | Seal Intact   Seal No   5 | Seal Date | Signed By   |                                   |             |
| 1 2.8 Good                                                                              | Yes                       |           |             |                                   |             |

| כ              | main                         | -or-cu           | Chain-or-Custony Record                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |                   |                          |                        | I                 | Ĭ                      | 1          | EN                        | IIR         | O                       | HALL ENVIRONMENTA | 1          |
|----------------|------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------|--------------------------|------------------------|-------------------|------------------------|------------|---------------------------|-------------|-------------------------|-------------------|------------|
| Client:        | V                            | SEX              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | E Standard                            | Rush              |                          | L                      |                   | AN                     | AL         | ANALYSIS                  | SL          | ABO                     | LABORATOR         | RY         |
|                |                              |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B                                     |                   |                          |                        | I                 | ×                      | w.hall     | www.hallenvironmental.com | menta       | al.com                  |                   |            |
| Mailing        | Mailing Address:             | 2 3              | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (2)<br>KA                             | 多を内               | 7                        | 4                      | 901 Hawkins NE -  | wkins                  | 빚          | Albuquerque, NM 87109     | nerque      | N                       | 37109             |            |
|                | JAN T                        | TARACOEN         | NO ON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Project #.                            |                   |                          |                        | Tel, 505-345-3975 | 5-345-                 | 3975       | 5 Fax 505-345-            | 505-3       | 505-345-4107            | 20                | į          |
| Phone #:       | Fax#                         | 3                | *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Project Manage                        | e c               |                          |                        |                   | H                      |            | (F)                       | Wen         | ğ                       | E                 | E          |
| QA/QC Packs    | QAYOC Package:<br>Z Standard |                  | ☐ Level 4 (Full Validation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4                                     | TANT              |                          |                        |                   | _                      |            | 08.409                    | M. L. +3    |                         |                   |            |
| Accreditation: | tation:                      | Č                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ı,                                    | Lan               | SIN C                    |                        |                   |                        |            | cON.                      | 100         | - 1                     |                   | (N         |
| I NELAP        | 1                            | - Omer           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | On ide.                               | 0                 | ON The                   |                        |                   |                        |            | _                         |             | VO                      |                   | , 01       |
| Date Time      | Time                         | Matrix           | Sample Request ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Container Preserva Type and # Type    | Preservative Type | HEAL No.                 | I8TM + X3<br>I8TM + X3 | BootheM H         | H (Method<br>B (Method | 10 ANY) 01 | StaM 8 Agr.               | 11 Pesticid | (AOV) 808<br>V-im98) 07 | t wool s          | Rubbles (Y |
| 470            | 6                            | 7300             | 1-12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 75                                    |                   | 1000049                  | 100                    | /                 | -                      | -01        |                           | 308         | Artist Laborator        | 170               | ηiΑ        |
| 25             | 25.80                        | _                | 7-18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                     |                   | 183-                     | -                      | -                 | +                      |            | 4                         | t           | +                       |                   |            |
| X X            | 12.8                         |                  | スプル                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |                   | -103                     |                        |                   | +                      |            |                           |             | +                       |                   |            |
| シジ             | 11:00                        |                  | BL-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |                   | 1700-                    |                        |                   |                        |            |                           |             | -                       |                   |            |
| K 29           | 17:00                        | >                | 12.18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | >                                     |                   | -005                     | >                      | 7                 | $\vdash$               |            | 7                         |             | $\vdash$                |                   |            |
|                |                              |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                   |                          |                        |                   | +                      |            | +                         |             |                         |                   |            |
|                |                              |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                   |                          |                        |                   |                        |            |                           |             | +                       |                   |            |
|                |                              |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                   |                          |                        |                   |                        |            |                           |             |                         |                   |            |
| Dane           | Time                         | Relinquished by: | ים בא:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Received by:                          | 44 05             | Date Time // 5/1/6 09/40 | Remarks                | 3                 | -                      |            |                           | 3           | +                       |                   |            |
| Date           | Time:                        | Relinquished by: | -/a pi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Received by:                          |                   | Date Time t              |                        |                   |                        |            |                           |             |                         |                   |            |
| 1              |                              | and the same     | This control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the c | and the second transfer of the second | solven blancher   |                          | THE SECOND             |                   |                        | 100        |                           |             |                         |                   |            |

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 26, 2017

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: Paul 2nd OrderNo.: 1706671

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 10 sample(s) on 6/13/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

**Batch ID** 

**Batch ID** 

**Batch ID** 

#### **Analytical Report**

**DF** Date Analyzed

**DF** Date Analyzed

**DF Date Analyzed** 

Lab Order: 1706671 Date Reported: 6/26/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Lab Order: 1706671

Project: Paul 2nd

**Analyses** 

**Analyses** 

Analyses

1706671-001 **Collection Date:** 6/7/2017 12:00:00 PM Lab ID:

Matrix: SOIL Client Sample ID: BG1-5 Result

**EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 43 30 mg/Kg 20 6/21/2017 11:21:24 AM 32409

**PQL Qual Units** 

**PQL Qual Units** 

Lab ID: 1706671-002 **Collection Date:** 6/7/2017 12:00:00 PM

Client Sample ID: BG1-1 Matrix: SOIL

Result

**EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 2600 75 mg/Kg 6/22/2017 6:35:28 PM 32409

**Collection Date:** 6/7/2017 12:00:00 PM Lab ID: 1706671-003

Client Sample ID: BG1-2 Matrix: SOIL

**PQL Qual Units** Analyses Result **DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA

Chloride 3000 150 mg/Kg 100 6/22/2017 6:47:52 PM 32409

Lab ID: 1706671-004 **Collection Date:** 6/7/2017 12:00:00 PM

Client Sample ID: BG1-4 Matrix: SOIL

Result

**EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 5300 300 mg/Kg 200 6/22/2017 7:00:17 PM

**POL Qual Units** 

1706671-005 Lab ID: **Collection Date:** 6/7/2017 11:00:00 AM

Client Sample ID: BG2-5 Matrix: SOIL

Analyses Result **PQL Qual Units DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA

Chloride ND 30 mg/Kg 20 6/21/2017 1:00:40 PM 32409

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Ε Value above quantitation range

Analyte detected below quantitation limits Page 1 of 3

P Sample pH Not In Range

RLReporting Detection Limit

**Batch ID** 

**Batch ID** 

**Batch ID** 

#### **Analytical Report**

**DF** Date Analyzed

**DF** Date Analyzed

**DF Date Analyzed** 

Lab Order: 1706671 Date Reported: 6/26/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Lab Order: 1706671

Project: Paul 2nd

**Analyses** 

Analyses

1706671-006 **Collection Date:** 6/7/2017 11:00:00 AM Lab ID:

Matrix: SOIL Client Sample ID: BG2-1 Result

**EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 530 30 mg/Kg 20 6/21/2017 1:13:05 PM 32409

**PQL Qual Units** 

**PQL Qual Units** 

Lab ID: 1706671-007 **Collection Date:** 6/7/2017 11:00:00 AM

Client Sample ID: BG2-2 Matrix: SOIL

Result

**Analyses EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 1500 75 mg/Kg 50 6/22/2017 7:12:42 PM 32409

**Collection Date:** 6/7/2017 11:00:00 AM Lab ID: 1706671-008

Client Sample ID: BG2-4 Matrix: SOIL

**PQL Qual Units** Analyses Result **DF Date Analyzed Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA

100 6/22/2017 7:25:07 PM Chloride 2600 150 mg/Kg 32409

Lab ID: 1706671-009 **Collection Date:** 6/7/2017 1:00:00 PM

Client Sample ID: A1-2 Matrix: SOIL

Result

**EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride 650 30 mg/Kg 20 6/21/2017 1:50:18 PM

**POL Qual Units** 

Lab ID: 1706671-010 **Collection Date:** 6/7/2017 2:00:00 PM

Client Sample ID: A2-3 Matrix: SOIL

Analyses Result **PQL Qual Units DF Date Analyzed Batch ID** 

**EPA METHOD 300.0: ANIONS** Analyst: MRA

Chloride 1600 75 mg/Kg 50 6/22/2017 7:37:32 PM 32409

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 3
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1706671** 

26-Jun-17

Client: Souder, Miller & Associates

**Project:** Paul 2nd

Sample ID MB-32409 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 32409 RunNo: 43687

Prep Date: 6/21/2017 Analysis Date: 6/21/2017 SeqNo: 1377078 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-32409 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 32409 RunNo: 43687

Prep Date: 6/21/2017 Analysis Date: 6/21/2017 SeqNo: 1377079 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.7 90 110

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

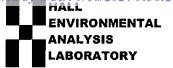
E Value above quantitation range

J Analyte detected below quantitation limits

Page 3 of 3

P Sample pH Not In Range

RL Reporting Detection Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

### Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: SMA-CARLSBAD Work Order Number: 1706671 RcptNo: 1 Received By: Richie Eriacho 6/13/2017 9:45:00 AM Completed By: Ashley Gallegos 6/13/2017 12:50:23 PM 06/13/17 ヒNM Reviewed By: Chain of Custody Yes  $\square$ No 🗌 Not Present ✓ 1. Custody seals intact on sample bottles? 2. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? Yes 🔽 No 🗌 NA 🗆 5. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 NA 🗀 Yes 🛂 Sample(s) in proper container(s)? Yes 🔽 No 🗌 7. Sufficient sample volume for indicated test(s)? Yes 🔽 No [ 8. Are samples (except VOA and ONG) properly preserved? Yes 🗸 9. Was preservative added to bottles? Yes  $\square$ No ☑ NA 🗆 10.VOA vials have zero headspace? Yes 🗌 No 🗌 No VOA Vials Yes 🗌 No 🗸 11. Were any sample containers received broken? # of preserved bottles checked No 🔲 for pH: 12. Does paperwork match bottle labels? Yes 🗸 (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗆 13. Are matrices correctly identified on Chain of Custody? Yes 🔽 No 🗌 Yes 🔽 14. Is it clear what analyses were requested? No 🗌 15. Were all holding times able to be met? Yes 🔽 Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 16. Was client notified of all discrepancies with this order? No 🗌 NA 🗹 Person Notified: Date By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Good

Page 1 of 1

Received by OCD: 9/18/2024 9:56:21 AM Page 770 of 874 (N to Y) selddu8 riA ANALYSIS LABORATORY HALL ENVIRONMENTAL submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be pleanly notated on the analytical report. 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 (AOV-imac) 07S8 www.hallenvironmental.com Analysis Request (AOV) 808S8 8081 Pesticides / 8082 PCB's (C)NO3,NO2,PO4,SO4) × × × 8 V × RCRA 8 Metals Tel. 505-345-3975 (2MI2 07S8 to 01E8) 2'HA9 EDB (Method 504.1) (1.814 bodieM) H9T TPH 8015B (GRO / DRO / MRO) Remarks: BTEX + MTBE + TPH (Gas only) STEX + MT8E + TM8's (8021) 3460 6/2/17 140 -009 700007 -003 8 100 -000 4000 50 Time -00 701 000 HEAL No. 6113/17 Date Date 42Sto Wegant ON L LCM MRS □ Rush Sample Temperature: [-3 Preservative 2nd Turn-Around Time Project Manager: Project Name Standard Standard Container Type and # Paul Sampler Received by Project # On loe: 405 1 ☐ Level 4 (Full Validation) Sample Request ID Chain-of-Custody Record ++ RG2-5 1361-4 641-2 862-1 1 891-892 862 1 1361 X 4 quished by □ Other Matrix R Mailing Address 2pm Time PM CAVOC Package 1 am 2:08 3 100 □ EDD (Type email or Fax#: Accreditation Time Time: :3: W D NELAP Phone # Client Date 147

Released to Imaging:



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 30, 2017



Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: Matador Paul 2nd OrderNo.: 1706A44

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 21 sample(s) on 6/20/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

male

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Matador Paul 2nd

Lab ID:

1706A44-001

Matrix: SOIL

**Collection Date:** 6/12/2017 10:30:00 AM

Received Date: 6/20/2017 10:15:00 AM

Client Sample ID: SW2

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed         | Batch   |
|--------------------------|--------|--------|----------|--------------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          | Analy                    | st: MRA |
| Chloride                 | 5500   | 300    | mg/Kg    | 200 6/27/2017 4:36:37 AN | 1 32485 |
| Nitrogen, Nitrate (As N) | 8.4    | 6.0    | mg/Kg    | 20 6/26/2017 1:05:47 PM  | 32485   |
| Sulfate                  | 6400   | 300    | mg/Kg    | 200 6/27/2017 4:36:37 AN | 1 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW4

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-002
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 120    | 30     | mg/Kg    | 20 | 6/26/2017 2:20:15 PM | 1 32485 |
| Nitrogen, Nitrate (As N) | 1.9    | 0.30   | mg/Kg    | 1  | 6/26/2017 1:43:01 PN | 1 32485 |
| Sulfate                  | 5800   | 75     | mg/Kg    | 50 | 6/27/2017 4:49:02 AM | 1 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab ID:

**CLIENT:** Souder, Miller & Associates

1706A44-003

Analytical Report
Lab Order 1706A44

Date Reported: 6/30/2017

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW5

**Project:** Matador Paul 2nd **Collection Date:** 6/12/2017 10:30:00 AM

Matrix: SOIL

**Received Date:** 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed       | Batch    |
|--------------------------|--------|--------|----------|----|---------------------|----------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy               | /st: MRA |
| Chloride                 | 1000   | 30     | mg/Kg    | 20 | 6/26/2017 2:45:04 P | M 32485  |
| Nitrogen, Nitrate (As N) | 2.3    | 1.5    | mg/Kg    | 5  | 6/26/2017 2:32:40 P | M 32485  |
| Sulfate                  | 5400   | 75     | mg/Kg    | 50 | 6/27/2017 5:01:27 A | M 32485  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 3 of 23

P Sample pH Not In Range

RL Reporting Detection Limit

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW6

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-004
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 19     | 7.5    | mg/Kg    | 5  | 6/26/2017 2:57:28 PM | M 32485 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5  | 6/26/2017 2:57:28 PM | M 32485 |
| Sulfate                  | 5300   | 75     | mg/Kg    | 50 | 6/27/2017 5:13:52 AM | M 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW7

Project: Matador Paul 2nd Lab ID: 1706A44-005

**CLIENT:** Souder, Miller & Associates

**Collection Date:** 6/12/2017 10:30:00 AM **Received Date:** 6/20/2017 10:15:00 AM

**Analyses** Result **PQL Qual Units DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: MRA 6/26/2017 3:22:16 PM Chloride 15 7.5 mg/Kg 5 32485 Nitrogen, Nitrate (As N) 1.7 1.5 mg/Kg 6/26/2017 3:22:16 PM 32485 Sulfate 5100 75 mg/Kg 6/27/2017 5:26:17 AM 32485

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Matador Paul 2nd

**Lab ID:** 1706A44-006

Client Sample ID: SW8

**Collection Date:** 6/12/2017 10:30:00 AM

**Received Date:** 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 1200   | 75     | mg/Kg    | 50 | 6/27/2017 5:38:41 AN | 1 32485 |
| Nitrogen, Nitrate (As N) | 1.9    | 1.5    | mg/Kg    | 5  | 6/26/2017 4:11:55 PM | 1 32485 |
| Sulfate                  | 5100   | 75     | mg/Kg    | 50 | 6/27/2017 5:38:41 AM | 1 32485 |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Matador Paul 2nd

**Lab ID:** 1706A44-007

Client Sample ID: SW9

**Collection Date:** 6/12/2017 10:30:00 AM

**Received Date:** 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 140    | 7.5    | mg/Kg    | 5  | 6/26/2017 4:36:44 PM | M 32485 |
| Nitrogen, Nitrate (As N) | 2.8    | 1.5    | mg/Kg    | 5  | 6/26/2017 4:36:44 PM | M 32485 |
| Sulfate                  | 5100   | 75     | mg/Kg    | 50 | 6/27/2017 5:51:06 AM | M 32485 |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: SW11

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-008
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 87     | 7.5    | mg/Kg    | 5  | 6/26/2017 5:01:33 PI | M 32485 |
| Nitrogen, Nitrate (As N) | 3.1    | 1.5    | mg/Kg    | 5  | 6/26/2017 5:01:33 PI | M 32485 |
| Sulfate                  | 5300   | 75     | mg/Kg    | 50 | 6/27/2017 6:03:30 Af | M 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BH 2-3

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-009
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed         | Batch    |
|--------------------------|--------|--------|----------|--------------------------|----------|
| EPA METHOD 300.0: ANIONS |        |        |          | Analy                    | /st: MRA |
| Chloride                 | 3000   | 150    | mg/Kg    | 100 6/27/2017 6:15:54 Al | M 32485  |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5 6/26/2017 5:26:23 PI   | M 32485  |
| Sulfate                  | 4100   | 150    | mg/Kg    | 100 6/27/2017 6:15:54 Al | M 32485  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BH 2-5.5

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:30:00 AM

 Lab ID:
 1706A44-010
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF  | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|-----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |     | Analy                | st: MRA |
| Chloride                 | 2100   | 150    | mg/Kg    | 100 | 6/27/2017 6:28:19 AM | A 32485 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5   | 6/26/2017 5:51:13 PM | A 32485 |
| Sulfate                  | 7500   | 150    | mg/Kg    | 100 | 6/27/2017 6:28:19 AM | A 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BH 2-10

**Project:** Matador Paul 2nd Collection Date: 6/12/2017 10:30:00 AM Lab ID: 1706A44-011 Matrix: SOIL Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF  | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|-----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |     | Analy                | st: MRA |
| Chloride                 | 1200   | 150    | mg/Kg    | 100 | 6/27/2017 9:08:03 Al | M 32485 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5   | 6/26/2017 6:40:51 PI | M 32485 |
| Sulfate                  | 6300   | 150    | mg/Kg    | 100 | 6/27/2017 9:08:03 Af | M 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 11 of 23 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BH 4-1.5

**Project:** Matador Paul 2nd Collection Date: 6/12/2017 10:30:00 AM Lab ID: 1706A44-012 Matrix: SOIL Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy                | st: MRA |
| Chloride                 | 300    | 7.5    | mg/Kg    | 5  | 6/26/2017 7:05:40 PM | A 32485 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5  | 6/26/2017 7:05:40 PM | A 32485 |
| Sulfate                  | 5600   | 75     | mg/Kg    | 50 | 6/27/2017 9:20:27 AM | Л 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 12 of 23 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-S

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-013
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                        | Result | PQL Qual  | Units | DF D | ate Analyzed         | Batch  |
|---------------------------------|--------|-----------|-------|------|----------------------|--------|
| <b>EPA METHOD 300.0: ANIONS</b> |        |           |       |      | Analys               | t: MRA |
| Chloride                        | 24     | 7.5       | mg/Kg | 5 6  | 6/26/2017 7:30:29 PM | 32485  |
| Nitrogen, Nitrate (As N)        | 6.3    | 1.5       | mg/Kg | 5 6  | 6/26/2017 7:30:29 PM | 32485  |
| Sulfate                         | 4800   | <b>75</b> | mg/Kg | 50 6 | 6/27/2017 9:32:52 AM | 32485  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 13 of 23

P Sample pH Not In Range

RL Reporting Detection Limit

Date Reported: 6/30/2017

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BGC-1

**Project:** Matador Paul 2nd Collection Date: 6/12/2017 10:45:00 AM Lab ID: 1706A44-014 Matrix: SOIL Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF  | Date Analyzed        | Batch   |
|--------------------------|--------|--------|----------|-----|----------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |     | Analy                | st: MRA |
| Chloride                 | 1000   | 30     | mg/Kg    | 20  | 6/26/2017 8:07:43 PM | M 32485 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5   | 6/26/2017 7:55:18 PM | M 32485 |
| Sulfate                  | 7700   | 150    | mg/Kg    | 100 | 6/27/2017 9:45:17 Al | M 32485 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 14 of 23 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-2

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-015
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                        | Result | PQL Qua | al Units | DF Date Analyzed         | Batch   |
|---------------------------------|--------|---------|----------|--------------------------|---------|
| <b>EPA METHOD 300.0: ANIONS</b> |        |         |          | Analys                   | st: MRA |
| Chloride                        | 3200   | 150     | mg/Kg    | 100 6/27/2017 9:57:41 AM | 32503   |
| Nitrogen, Nitrate (As N)        | 1.5    | 1.5     | mg/Kg    | 5 6/26/2017 9:09:47 PM   | 32503   |
| Sulfate                         | 10000  | 150     | mg/Kg    | 100 6/27/2017 9:57:41 AM | 32503   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 15 of 23

P Sample pH Not In Range

RL Reporting Detection Limit

Date Reported: 6/30/2017

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-3

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-016
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                        | Result | PQL Qu | al Units | DF Date Analyzed         | Batch    |
|---------------------------------|--------|--------|----------|--------------------------|----------|
| <b>EPA METHOD 300.0: ANIONS</b> |        |        |          | Analy                    | vst: MRA |
| Chloride                        | 4800   | 300    | mg/Kg    | 200 6/27/2017 10:10:05 A | M 32503  |
| Nitrogen, Nitrate (As N)        | 1.6    | 1.5    | mg/Kg    | 5 6/26/2017 9:59:26 PM   | M 32503  |
| Sulfate                         | 7800   | 300    | mg/Kg    | 200 6/27/2017 10:10:05 A | M 32503  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 16 of 23

P Sample pH Not In Range

RL Reporting Detection Limit

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BGC-4

**Project:** Matador Paul 2nd Collection Date: 6/12/2017 10:45:00 AM 1706A44-017 Matrix: SOIL Lab ID: Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qua | l Units | DF Date Analyzed         | Batch   |
|--------------------------|--------|---------|---------|--------------------------|---------|
| EPA METHOD 300.0: ANIONS |        |         |         | Analy                    | st: MRA |
| Chloride                 | 4800   | 150     | mg/Kg   | 100 6/27/2017 10:22:30 A | M 32503 |
| Nitrogen, Nitrate (As N) | ND     | 1.5     | mg/Kg   | 5 6/26/2017 10:24:16 P   | M 32503 |
| Sulfate                  | 9500   | 150     | mg/Kg   | 100 6/27/2017 10:22:30 A | M 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 17 of 23 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates Client Sample ID: BGC-6

**Project:** Matador Paul 2nd Collection Date: 6/12/2017 10:45:00 AM Matrix: SOIL Lab ID: 1706A44-018 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed         | Batch   |
|--------------------------|--------|--------|----------|--------------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          | Analy                    | st: MRA |
| Chloride                 | 3500   | 150    | mg/Kg    | 100 6/27/2017 10:34:55 A | M 32503 |
| Nitrogen, Nitrate (As N) | ND     | 1.5    | mg/Kg    | 5 6/26/2017 10:49:05 P   | M 32503 |
| Sulfate                  | 5300   | 150    | mg/Kg    | 100 6/27/2017 10:34:55 A | M 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 18 of 23 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-8

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-019
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed         | Batch    |
|--------------------------|--------|--------|----------|--------------------------|----------|
| EPA METHOD 300.0: ANIONS |        |        |          | Analy                    | /st: MRA |
| Chloride                 | 2400   | 150    | mg/Kg    | 100 6/27/2017 10:47:20 A | AM 32503 |
| Nitrogen, Nitrate (As N) | 1.6    | 1.5    | mg/Kg    | 5 6/26/2017 11:38:45 F   | PM 32503 |
| Sulfate                  | 8300   | 150    | mg/Kg    | 100 6/27/2017 10:47:20 A | AM 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 19 of 23
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 6/30/2017

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-10

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-020
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                        | Result | PQL Qu | al Units | DF Date Analyzed       | Batch     |
|---------------------------------|--------|--------|----------|------------------------|-----------|
| <b>EPA METHOD 300.0: ANIONS</b> |        |        |          | Ana                    | lyst: MRA |
| Chloride                        | 2700   | 150    | mg/Kg    | 100 6/27/2017 10:59:44 | AM 32503  |
| Nitrogen, Nitrate (As N)        | ND     | 1.5    | mg/Kg    | 5 6/27/2017 12:03:34   | AM 32503  |
| Sulfate                         | 7200   | 150    | mg/Kg    | 100 6/27/2017 10:59:44 | AM 32503  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 20 of 23

P Sample pH Not In Range

RL Reporting Detection Limit

Date Reported: 6/30/2017

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: BGC-12

 Project:
 Matador Paul 2nd
 Collection Date: 6/12/2017 10:45:00 AM

 Lab ID:
 1706A44-021
 Matrix: SOIL
 Received Date: 6/20/2017 10:15:00 AM

| Analyses                 | Result | PQL Qua | al Units | DF Date Analyzed         | Batch   |
|--------------------------|--------|---------|----------|--------------------------|---------|
| EPA METHOD 300.0: ANIONS |        |         |          | Analy                    | st: MRA |
| Chloride                 | 1300   | 150     | mg/Kg    | 100 6/27/2017 11:36:58 A | M 32503 |
| Nitrogen, Nitrate (As N) | ND     | 1.5     | mg/Kg    | 5 6/27/2017 12:28:23 A   | M 32503 |
| Sulfate                  | 7100   | 150     | mg/Kg    | 100 6/27/2017 11:36:58 A | M 32503 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 21 of 23

P Sample pH Not In Range

RL Reporting Detection Limit

#### OC SUMMARY REPORT

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 1706A44 30-Jun-17

**Client:** Souder, Miller & Associates

**Project:** Matador Paul 2nd

Sample ID MB-32485 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 32485 RunNo: 43787

Prep Date: 6/26/2017 Analysis Date: 6/26/2017 SeqNo: 1380561 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5 Nitrogen, Nitrate (As N) ND 0.30 ND Sulfate 1.5

Sample ID LCS-32485 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 32485 RunNo: 43787

Analysis Date: 6/26/2017 SeqNo: 1380562 Prep Date: 6/26/2017 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 91.1 Chloride 14 1.5 15.00 0 90 110 Nitrogen, Nitrate (As N) 7.1 0.30 7.500 0 94.2 90 110 0 93.7 90 Sulfate 28 1.5 30.00 110

Sample ID 1706A44-002AMS TestCode: EPA Method 300.0: Anions SampType: ms

Client ID: SW4 Batch ID: 32485 RunNo: 43787

Prep Date: 6/26/2017 Analysis Date: 6/26/2017 SeqNo: 1380574 Units: mg/Kg

Result SPK Ref Val %REC %RPD **RPDLimit** Analyte PQL SPK value LowLimit HighLimit Qual

Nitrogen, Nitrate (As N) 8.7 0.30 7.500 1.907 90.0 61.8 142

TestCode: EPA Method 300.0: Anions Sample ID 1706A44-002AMSD SampType: msd

Client ID: **SW4** Batch ID: 32485 RunNo: 43787

Prep Date: Analysis Date: 6/26/2017 SeqNo: 1380575 6/26/2017 Units: mg/Kg

%RPD **RPDLimit** Analyte Result PQI SPK value SPK Ref Val %REC LowLimit HighLimit Qual

Nitrogen, Nitrate (As N) 8.6 0.30 7.500 1.907 88.6 61.8 142 1.22 20

Sample ID MB-32503 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: Batch ID: 32503 **PBS** RunNo: 43787

Prep Date: 6/26/2017 Analysis Date: 6/26/2017 SeqNo: 1380605 Units: mg/Kg

Analyte SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Result HighLimit Qual

Chloride ND 1.5 Nitrogen, Nitrate (As N) ND 0.30 Sulfate ND 1.5

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit Sample container temperature is out of limit as specified

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#### **QC SUMMARY REPORT**

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **1706A44** *30-Jun-17* 

Client: Souder, Miller & Associates

**Project:** Matador Paul 2nd

Sample ID LCS-32503 SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 32503 RunNo: 43787 Analysis Date: 6/26/2017 Prep Date: 6/26/2017 SeqNo: 1380606 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride 93.3 90 14 1.5 15.00 0 110 Nitrogen, Nitrate (As N) 97.5 7.3 0.30 7.500 0 90 110 Sulfate 95.0 90 28 1.5 30.00 0 110

Sample ID 1706A44-015AMS TestCode: EPA Method 300.0: Anions SampType: ms RunNo: 43787 Client ID: BGC-2 Batch ID: 32503 Prep Date: 6/26/2017 Analysis Date: 6/26/2017 SeqNo: 1380610 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Nitrogen, Nitrate (As N) 1.546 88.5 61.8 8.2 1.5 7.500 142

Sample ID 1706A44-015AMSD SampType: msd TestCode: EPA Method 300.0: Anions Client ID: BGC-2 Batch ID: 32503 RunNo: 43787 Prep Date: 6/26/2017 Analysis Date: 6/26/2017 SeqNo: 1380611 Units: mg/Kg **RPDLimit** %REC %RPD Analyte SPK value SPK Ref Val LowLimit HighLimit Qual

87.7

61.8

0.768

20

1.546

7.500

#### Qualifiers:

Nitrogen, Nitrate (As N)

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Released to Imaging: 10/1/2024 11:13:49 AM



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

#### Sample Log-In Check List

| Client Name:      | SMA-CARLSBAD                                             | Work Order Numb             | er: <b>1706A44</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RcptNo:                           | 1                    |
|-------------------|----------------------------------------------------------|-----------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------|
| Received By:      | Sophia Campuzano                                         | 6/20/2017 10:15:00          | AM                 | Josephie Gregoria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   |                      |
| Completed By:     | Richie Eriacho                                           | 6/20/2017 10:54:47          | AM                 | 12-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |                      |
| Reviewed By:      | Relas                                                    | 6/20117                     |                    | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ** \$49                           |                      |
| rteviewed by.     | pe 1003                                                  | G( G(1 +                    |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                      |
| Chain of Cus      | <u>tody</u>                                              |                             |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                      |
| 1. Custody sea    | als intact on sample bottles?                            |                             | Yes 🗌              | No 🗆                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Not Present 🗹                     |                      |
| 2. Is Chain of C  | Custody complete?                                        |                             | Yes 🗹              | No 🗌                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Not Present                       |                      |
| 3. How was the    | e sample delivered?                                      |                             | <u>Courier</u>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                      |
| <u>Log In</u>     |                                                          |                             |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                      |
| 4. Was an atte    | empt made to cool the samp                               | les?                        | Yes 🗹              | No 🗆                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | na 🗆                              |                      |
| 5. Were all san   | mples received at a tempera                              | ture of >0° C to 6.0°C      | Yes 🗹              | No 🗌                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | na 🗆                              |                      |
| 6. Sample(s) ir   | n proper container(s)?                                   |                             | Yes 🗸              | No 🗆                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |                      |
| 7. Sufficient sa  | mple volume for indicated to                             | est(s)?                     | Yes 🗹              | No 🗌                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |                      |
| 8. Are samples    | (except VOA and ONG) pro                                 | pperly preserved?           | Yes 🗸              | No 🗌                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |                      |
| 9. Was preserv    | vative added to bottles?                                 |                             | Yes 🗌              | No 🗹                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NA 🗆                              |                      |
| 10.VOA vials ha   | ave zero headspace?                                      |                             | Yes 🗌              | No 🗌                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No VOA Vials 🗹                    |                      |
| 11. Were any sa   | ample containers received b                              | roken?                      | Yes                | No 🗹                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | # of associated                   |                      |
|                   |                                                          |                             |                    | _ :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | # of preserved<br>bottles checked |                      |
|                   | work match bottle labels?<br>pancies on chain of custody | ١                           | Yes 🗸              | No L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | for pH:                           | or >12 unless noted) |
| · ·               | s correctly identified on Chai                           | •                           | Yes 🗹              | No 🗀                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Adjusted?                         |                      |
|                   | at analyses were requested                               | •                           | Yes 🗹              | No 🗆                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |                      |
|                   | ding times able to be met?                               |                             | Yes 🗸              | No 🗆                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Checked by:                       |                      |
| (If no, notify    | customer for authorization.)                             |                             |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                      |
| Special Hand      | lling (if applicable)                                    |                             |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                      |
| 16. Was client n  | otified of all discrepancies v                           | vith this order?            | Yes 🗌              | No 🗆                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NA 🗹                              |                      |
| Persor            | n Notified:                                              | Date:                       |                    | Minimum and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second a |                                   | <del></del> .        |
| By Wh             | iom:                                                     | Via:                        | "<br>☐ eMail ☐ F   | hone 🗌 Fax                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ☐ In Person                       |                      |
| Regard            | ding:                                                    |                             |                    | alaban kasan aya kasan ana arang arang arang arang arang arang arang arang arang arang arang arang arang arang                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | *                                 |                      |
| Client            | Instructions:                                            |                             |                    | ***************************************                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |                      |
| 17. Additional re | emarks:                                                  |                             |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                      |
| 18. Cooler Info   | <u>rmation</u>                                           |                             |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                      |
| Cooler No         | <del></del>                                              | Seal Intact   Seal No       | Seal Date          | Signed By                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                      |
| [1                | 6.0 Good                                                 |                             |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                      |
| Page 1 o          | f 1                                                      | undured which is the second | **                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                      |

Received by OCD: 9/18/2024 9:56:21 AM Page 796 of 874 Arr Bubbles (Y or M) ANALYSIS LABORATORY HALL ENVIRONMENTAL mined in Hall Environmental may be subcontracted to other accredited taboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly rotated on the analytical report. 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 (AOV-ima2) 07S8 www.hallenvironmental.com **Analysis Request** 8081 Pesticides / 8082 PCB's CINO3/103/103/EOTEOT RCRA 8 Metals Tel. 505-345-3975 (SMIS 0728 to 0168) 2'HA9 EDB (Method 504 1) (1,814 boriteM) H9T (ORM \ ORG \ ORG) BE108 H91 Remarks BTEX + MTBE + TPH (Gas only) BTEX + MTBE + TMB's (8021) 88 RRUSH 5 day (Matador) -012 06/20/17 1015 1000 100 -007 2007 1000 010-1766 4464 280 100-1003 10-Time 8 HEAL NO. Matador: Paw 2nd ON U Austin Wedant Sample Temperature: (o.0) Preservative N Yes Turn-Around Time: Sampler: LCM Project Manager Project Name: □ Standard Type and # Container 1002 10K Project # On loe: Receive ☐ Level 4 (Full Validation) Sample Request ID Chain-of-Custody Record -55 BH 2-3 PH-19 BH2-10 SAMA - COUNSHAD (M) SWB SEB SW 9 5M+ SW2 3 N Relinquished by □ Other Matrix Relinquish Soll Chain-Chain-Chain-Chain-Chaine Chain-Chaine Chaine haine Chaine C 1900 Time DA/QC Package: 10.30 HI 10.30 EDD (Type) email or Fax# Accreditation THE ☐ Standard O NELAP hone #: Dale Date

| Client: SMA-sailing Address: | JA.    | 1                | The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s |                         |                          |                                           |          | •                      |           | -                         | -          |                        | -                  |             |
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| Mailing A                    |        | - Car            | SMA-Carlshad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | □ Standard              |                          | M Rush 5 day (matadir)                    |          |                        | A         | VST.                      | VIR        | NO CO                  | HALL ENVIRONMENTAL | 13          |
| Mailing Adı                  |        |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Project Name:           | 1                        |                                           | I        |                        | Word ha   | www.hallenvironmental.com | ]          | 0                      | 5                  |             |
|                              | dress; |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Marado                  | 10r : Pa                 | - Paul 2nd.                               | 4901     | 4901 Hawkins NE        | ns NE     | - Albuqi                  | nerque,    | Albuquerque, NM 87109  | 109                |             |
|                              |        |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Project #.              |                          |                                           | Tel.     | Tel. 505-345-3975      | 5-3975    | Fax                       | 505-3      | Fax 505-345-4107       | 2                  |             |
| # euoud /1/2                 |        |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |                          |                                           |          |                        |           | Analysis Request          | Redn       | est                    |                    | ĸ           |
| email or Fax#:               | ·#X    |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Project Manager:        | der                      |                                           | ηλ)      | (0)                    | -         | Co                        | -          | F                      |                    | r           |
| OA/GC Package                | kaget  |                  | ☐ Level 4 (Full Validation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Aushin                  | in Weyan                 | my+                                       | 10 se9)  | W/O                    | (SWI      |                           | -          |                        |                    |             |
| Accreditation                | 1      | Š                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7                       |                          |                                           | Нат      | _                      |           |                           |            |                        |                    |             |
| TANGE I                      |        |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | On Ice                  | X Yes                    | □ No                                      | + 3      |                        |           | S                         |            | (AC                    |                    | -           |
| □ EDD (1ype                  | (be)   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sample Tem              | Sample Temperature: (5.0 |                                           | 38T      |                        |           | ste                       | cide       |                        |                    |             |
| Date                         | Time   | Matrix           | Sample Request ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Container<br>Type and # | Preservative<br>Type     | HEAL NO.                                  | BTEX + M | 12108 H9T<br>rteM) H9T | EDB (Weth | M 8 AROR<br>Anions (F.    | itse9 1808 | OV) 80828<br>m98) 0758 |                    | səlddu8 riA |
| 24:01 CITAIN                 |        | 19               | BG- C-S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (U) (UV)                |                          | -613 -04                                  |          |                        |           | 1                         |            |                        |                    |             |
|                              |        | -                | BGC-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                         |                          | 790- HIO-                                 |          |                        |           | 1                         |            | Ā                      |                    |             |
|                              |        |                  | BGC-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                         |                          | -015 -063                                 |          |                        | Ī         | 1                         | -          | Ą                      |                    |             |
|                              |        |                  | 16c - 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |                          | 1-016 -084                                |          |                        | H         | 1                         |            |                        |                    |             |
|                              |        |                  | Bac - 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |                          | -017 -005                                 |          |                        |           | 1                         |            |                        |                    |             |
|                              |        |                  | 265- 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                          | -018 -cot                                 |          |                        |           | )                         | (          |                        |                    |             |
|                              |        |                  | 66C-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                         |                          | -019 - <del>807</del>                     |          |                        |           | 1                         | 1          |                        |                    |             |
|                              |        |                  | 100 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |                          | -010-068                                  |          | Ξ                      |           | 7                         |            |                        |                    | I           |
| 3                            |        | 7                | HaC-12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                       |                          | -07 -06                                   |          |                        |           | 7                         |            |                        |                    |             |
|                              |        |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |                          |                                           |          | 1                      |           |                           |            |                        |                    | ++          |
| Date: Time                   |        | Relinquisher by: | e by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Received by:            |                          |                                           | Remarks: |                        |           |                           |            |                        |                    |             |
| Parie: Time:                 | 1      | Relingershee     | July 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Receipt of the          | 1                        | #1917 OYON<br>Date Time<br>CL /20/17 1015 |          |                        |           |                           |            |                        |                    |             |

**CLIENT:** Souder, Miller & Associates

**Analytical Report**Lab Order **1706875** 

Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Tiger W1

 Project:
 Tiger W1
 Collection Date: 6/13/2017 3:00:00 PM

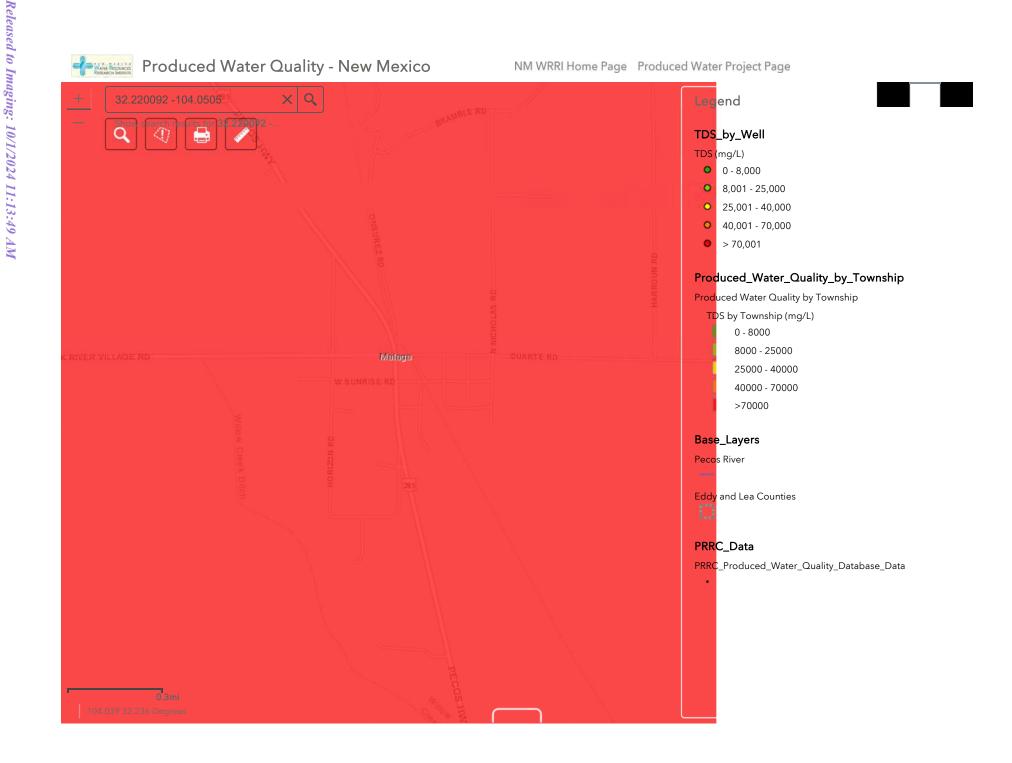
 Lab ID:
 1706875-001
 Matrix: AQUEOUS
 Received Date: 6/15/2017 9:30:00 AM

Analyses Result **POL Oual Units DF** Date Analyzed **Batch CARBON DIOXIDE** Analyst: JRR mg CO2/L 6/15/2017 8:49:30 PM R43555 **Total Carbon Dioxide** 180 1.0 Н SPECIFIC GRAVITY Analyst: JRR 1.096 0 6/22/2017 1:34:00 PM R43724 Specific Gravity **EPA METHOD 300.0: ANIONS** Analyst: MRA 100000 Chloride 5000 mg/L 1E 6/24/2017 4:31:52 AM R43793 Sulfate 490 10 mg/L 20 6/16/2017 12:35:34 PM R43601 SM2320B: ALKALINITY Analyst: JRR 150.6 20.00 mg/L CaCO3 6/15/2017 8:49:30 PM R43555 Bicarbonate (As CaCO3) 1 Carbonate (As CaCO3) ND 2.000 mg/L CaCO3 1 6/15/2017 8:49:30 PM R43555 Total Alkalinity (as CaCO3) 150.6 20.00 mg/L CaCO3 6/15/2017 8:49:30 PM R43555 SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS **Total Dissolved Solids** 164000 2000 \*D mg/L 6/21/2017 5:49:00 PM 32389 SM4500-H+B: PH Analyst: JRR 6/15/2017 8:49:30 PM R43555 рΗ 6.77 pH units Н 1 **EPA METHOD 200.7: METALS** Analyst: pmf Barium 3.4 0.040 mg/L 6/22/2017 3:04:53 PM 32391 Calcium 6800 100 100 6/22/2017 5:02:18 PM mg/L 32391 0.40 Iron 13 mg/L 6/22/2017 3:04:53 PM 32391 Magnesium 1000 20 mg/L 20 6/22/2017 3:04:53 PM 32391 Manganese 1.1 0.040 mg/L 20 6/22/2017 3:04:53 PM 32391 Potassium 860 20 20 mg/L 6/22/2017 3:04:53 PM 32391 Sodium 37000 1000 6/22/2017 8:15:36 PM mg/L 32391 ND 6/22/2017 3:04:53 PM 32391 Strontium 0.20 mg/L

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



#### NM OIL CONSERVATION

ARTESIA DISTRICT

FEB 19 2018

Form C-141 Revised April 3, 2017

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources** 

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in ECELVED accordance with 19.15.29 NMAC.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                 | Rele         | ease Notific                            | ation                                   | and Co                       | rrective A           | ction                     |                                       |                                        |              |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------|--------------|-----------------------------------------|-----------------------------------------|------------------------------|----------------------|---------------------------|---------------------------------------|----------------------------------------|--------------|--------------|
| NAB180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 05/32         | 291             |              |                                         |                                         | OPERA?                       | ГOR                  |                           |                                       | al Report                              |              | Final Report |
| Name of Co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | mpany M       | atador Resou    |              | npany <i>2289</i> ,                     |                                         | Contact Cas                  |                      |                           |                                       |                                        |              |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                 |              | llas, TX 75240                          |                                         | Telephone No. (972) 371-5439 |                      |                           |                                       |                                        |              |              |
| Facility Nar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ne TOM N      | MATTHEWS        | 10 248       | 28E RB #203H                            | <u> </u>                                | Facility Type Oil well       |                      |                           |                                       |                                        |              |              |
| Surface Ow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ner Private   | e               |              | Mineral C                               | wner P                                  | rivate                       |                      |                           | API No                                | . 30-015-4                             | 4561         |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                 |              | LOCA                                    | TION                                    | OF RE                        | LEASE                |                           |                                       |                                        |              |              |
| Unit Letter<br>I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Section<br>10 | Township<br>24S | Range<br>28E | Feet from the 1659                      |                                         | South Line<br>South          | Feet from the 349    | 1                         | Vest Line<br>Vest                     | County<br>Eddy                         |              |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                 |              | 22.220.6730                             | <b>.</b>                                |                              | 104 0022700          | <u> </u>                  |                                       | <u> </u>                               |              |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | Li              | atitude_     | _32.229673°                             |                                         |                              |                      | NA                        | VD83                                  |                                        |              |              |
| Type of Rele                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | nea Dradua    | ad Woter        |              | NAT                                     | UKE                                     | OF REL                       | Release 193 bbl      | T                         | Volume I                              | Recovered 4                            | 5 hhl        |              |
| Source of Re                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                 |              |                                         | ······                                  | <del></del>                  | lour of Occurrent    | ************************* |                                       | Hour of Dis                            | ************ | ,            |
| 334.35 51 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | tuase Equip   |                 |              |                                         |                                         | 1/31/18 ~                    |                      |                           | 2/1/18 ~                              |                                        |              |              |
| Was Immedia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ate Notice (  |                 | Ycs [        | No □ Not Ro                             | equired                                 | If YES, To<br>Mike Brate     |                      |                           |                                       |                                        |              |              |
| By Whom?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Lucas Midd    | lleton( SMA)    |              |                                         | *************************************** | Date and I                   | lour 2/1/18 12:00    | )                         |                                       | ······································ |              |              |
| Was a Water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               | ched?           | Yes ⊠        | ] No                                    |                                         |                              | olume Impacting      |                           | rcourse.                              | ······································ |              |              |
| If a Watercourse was Impacted, Describe Fully.*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                 |              |                                         |                                         |                              |                      |                           |                                       |                                        |              |              |
| N/A  Describe Cause of Problem and Remedial Action Taken.*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                 |              |                                         |                                         |                              |                      |                           |                                       |                                        |              |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                 |              | pad. The pump wa                        | as isolate                              | ed and a vacu                | um truck and bad     | ckhoe wa                  | as on site v                          | acuuming a                             | ll stand     | ling fluids  |
| Describe Are                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | a Affected    | and Cleanup A   | Action Tal   | ken.*                                   |                                         |                              |                      |                           |                                       |                                        |              |              |
| The release o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ecurred on    | the pad aroun   | d the tank   | battery. SMA wil                        | II delinea                              | ite and subm                 | it a work plan for   | approva                   | d of remed                            | liation actior                         | ıs.          |              |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |               |                 |              |                                         |                                         |                              |                      |                           | ndanger<br>f liability<br>ıman health |                                        |              |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                 |              |                                         |                                         |                              | <u>OIL CON</u>       | SERV                      | ATION                                 | DIVISIO                                | <u> </u>     |              |
| Signature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                 |              | *************************************** |                                         | <b>.</b>                     | Simo                 | d By                      |                                       | Excurrent                              | ماند         |              |
| Printed Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | e: Case Sn    | ow              |              |                                         |                                         | approved by                  | Environmentars       | Specialisi                |                                       |                                        |              | <u> </u>     |
| Title: Manag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | er Regulato   | ory, Environm   | ental, & S   | afety                                   |                                         | Approval Da                  | te: <u> </u>         |                           | Expiration                            | Date: N                                | IA           |              |
| E-mail Addre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ess: csnow(   | matadorreso     | urces.com    | <u> </u>                                |                                         | Conditions o                 | f Approval:<br>Sel W | J.Lo.                     | had                                   | Attached                               | り<br>兄       | 11.00        |
| Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |                 | Phone        | : (972) 371-5439                        | 1                                       |                              | Sel W                | MU                        | nen                                   | - ik                                   | γγ. ζ        | 1024         |

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 2/19/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 3/19/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

#### **Bratcher, Mike, EMNRD**

From: Lucas Middleton < lucas.middleton@soudermiller.com>

Sent: Monday, February 19, 2018 10:02 AM

To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD

**Subject:** Tom Mathews C141 Initial **Attachments:** tom Mathews c141.pdf

Hello,

I am submitting a C141 Initial for Matador Resources for Tom Mathews 10 24S28E RB #203H which occurred on 1/31/18.

Lucas Middleton Staff GeoScientist (575) 499-9244 (mobile)



Souder, Miller & Associates
Engineering • Environmental • Surveying
201 S. Halagueno
Carlsbad, NM 88220
www.soudermiller.com

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#### Weaver, Crystal, EMNRD

From: Lucas Middleton < lucas.middleton@soudermiller.com>

Sent: Thursday, February 1, 2018 12:02 PM

To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD

**Cc:** Csnow (Csnow@matadorresources.com)

**Subject:** Immediate notification

Matador Resources Tom Mathews #203H 30-15-44561

Release stayed on pad Approximately 50 bbls was released Approximately 48 bbls was recovered

We will submit a C141 Initial asap.

Lucas Middleton Staff Scientist (575) 499-9244 (mobile)



Souder, Miller & Associates
Engineering • Environmental • Surveying
201 S. Halagueno
Carlsbad, NM 88220
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From: Weaver, Crystal, EMNRD

To: "Lucas Middleton"; Bratcher, Mike, EMNRD
Cc: Csnow (Csnow@matadorresources.com)
Subject: RE: Tom Mathews C141 Initial
Date: Monday, April 2, 2018 1:56:00 PM

Attachments: <a href="mage002.png">image002.png</a>

1. 4629 - COAs and signed C-141 Initial.pdf

RE: Matador \* Tom Matthews 10 24S 28E RB #203H \* 30-015-44561 \* 2RP-4629

Casey/Lucas,

I have included a scanned copy of the signed Initial C-141 Remediation Permit along with an attached Conditions of Approval (COA). The OCD tracking number for this event is 2RP-4629, please refer to this tracking number on any and all submissions sent in to the OCD. Please remit a site characterization plan (see COA document included in attachment) or advise OCD of plan of action immediately since this one has a due date of 3/19/18 and that has passed.

Thank you,

#### **Crystal Weaver**

Environmental Specialist OCD – Artesia District II

811 S. 1<sup>st</sup> Street Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963 Fax: 575-748-9720

From: Lucas Middleton [mailto:lucas.middleton@soudermiller.com]

**Sent:** Monday, February 19, 2018 10:02 AM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD

<Crystal.Weaver@state.nm.us>
Subject: Tom Mathews C141 Initial

Hello,

I am submitting a C141 Initial for Matador Resources for Tom Mathews 10 24S28E RB #203H which occurred on 1/31/18.

Lucas Middleton Staff GeoScientist (575) 499-9244 (mobile)



Souder, Miller & Associates
Engineering Environmental Surveying
201 S. Halagueno
Carlsbad, NM 88220
www.soudermiller.com

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From: Lucas Middleton

To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD
Cc: John Hurt; Csnow (Csnow@matadorresources.com)

Subject: SOIL REMEDIATION WORK PLAN FOR THE TOM MATTHEWS #203H RELEASE (2RP-4629) API # 30-015- 44561

**Date:** Wednesday, March 7, 2018 10:52:32 AM

Attachments: <a href="mage003.png">image003.png</a>

SOIL REMEDIATION WORK PLAN FOR THE TOM MATTHEWS #203H RELEASE (2RP-.pdf

#### Good Morning,

On behalf of Matador Resources, SMA is submitting a soil remediation work plan for TOM MATTHEWS #203H. 2RP-4629, API # 30-015- 44561.

Thank you and have a great day

Lucas Middleton Staff GeoScientist (575) 499-9244 (mobile)



Souder, Miller & Associates
Engineering Environmental Surveying
201 S. Halagueno
Carlsbad, NM 88220
www.soudermiller.com

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February 27,2018

#5E26816-BG3

NMOCD District II Mike Bratcher 811 S. First St. Artesia, NM 88210

SUBJECT: SOIL REMEDIATION WORK PLAN FOR THE TOM MATTHEWS #203H RELEASE (2RP-4629), EDDY COUNTY, NEW MEXICO

Dear Mr. Bratcher,

On behalf of Matador Resources, Souder, Miller & Associates (SMA) has prepared this WORK PLAN that describes the assessment, initial delineation and proposed remediation for a release associated with the TOM MATTHEWS 10 24S 28E RB #203H. The site is located in UNIT I, SECTION 10, TOWNSHIP 24S, RANGE 28E, NMPM, Eddy County, New Mexico, on Private land. Figure 1 illustrates the vicinity and location of the site.

Table 1, below, summarizes information regarding the release.

| Table 1: Rel                     | ease information and Site Ranking |
|----------------------------------|-----------------------------------|
| Name                             | TOM MATTHEWS 10 24S 28E RB #203H  |
| Company                          | Matador Resources                 |
| RP Number                        | 2RP-4629                          |
| API Number                       | 30-015-44561                      |
| Location                         | 32.229673°, -104.083370°          |
| Estimated Date of Release        | 1/31/18                           |
| Date Reported to NMOCD           | 2/1/18                            |
| Land Owner                       | Private                           |
| Reported To                      | NM OCD Artesia District Office    |
| Source of Release                | Equipment Failure                 |
| Released Material                | Produced Water                    |
| Released Volume                  | 193 bbls                          |
| Recovered Volume                 | 45 bbls                           |
| Net Release                      | 148 bbls                          |
| Nearest Waterway                 | 0.33 Miles from Black River       |
| Depth to Groundwater             | 25'                               |
| Nearest Domestic Water<br>Source | Greater than 1,000 feet           |
| NMOCD Ranking                    | 20                                |
| SMA Response Dates               | January 31 and February 6, 2018   |

Soil Remediation Workplan (2RP-4629) TOM MATTHEWS #203H of 4 February 27, 2018 Page 2

#### 1.0 Background

On January 31, 2018, a transfer Pump failed causing a release onto the Tom Matthews #203H pad. The pump was isolated, and a vacuum truck and backhoe was on site vacuuming all standing fluids. The release occurred on the pad around the tank battery and impacted an estimated impact 2,221 square yards of unlined surface area. The release is illustrated on Figure 2.

#### 2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 0.33 miles south of the Black River, with an elevation of approximately 3,020 feet above sea level. SMA searched the New Mexico State Engineer's Office (NMOSE) online water well database for water wells in the vicinity of the release. Two wells are located within a 1,000 foot radius of the site. Neither of these two wells are domestic. Well ID #C00764 is the nearest, with a depth-to-groundwater of 25 feet. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be 25 feet below ground surface (bgs).

Recommended Remediation Action Levels (RRALs) are determined by the site ranking according to the NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (1993). Below in Table 2 are the remediation standards and the site ranking for this location. Justification for this site ranking is found in Figure 1 and Appendix B.

Table 2.

| Soil Remediation Standards | 0 to 9   | 10 to 19 | >19     |
|----------------------------|----------|----------|---------|
| Benzene                    | 10 PPM   | 10 PPM   | 10 PPM  |
| BTEX                       | 50 PPM   | 50 PPM   | 50 PPM  |
| ТРН                        | 5000 PPM | 1000 PPM | 100 PPM |

| Depth to Groundwater              | NMOCD Numeric Rank |
|-----------------------------------|--------------------|
| < 50 BGS = 20                     | 20                 |
| 50' to 99' = 10                   |                    |
| >100' = 0                         |                    |
| Distance to Nearest Surface Water | NMOCD Numeric Rank |
| < 200' = 20                       |                    |
| 200' - 1000' = 10                 |                    |
| >1000' = 0                        | 0                  |
| Well Head Protection              | NMOCD Numeric Rank |
| <1000' (or <200' domestic) = 20   |                    |
| > 1000' = 0                       | 0                  |
| Total Site Ranking                | 20                 |

Soil Remediation Workplan (2RP-4629) TOM MATTHEWS #203H of 4 February 27, 2018 Page 3

#### 3.0 Release Characterization

On January 31, 2018 and February 6, 2018, a SMA representative was on site for an initial site evaluation the extent of the release. Soil samples were field-screened using an EC meter and processed according to NMOCD soil sampling procedures. 7 sample locations were collected including backgrounds. Samples occurred between 0.5 feet to 3 feet bgs. The sample was sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analyses of chlorides by Method 300.0. A surface sample from location L3 was analyzed for volatile organics (BTEX) by Method 8021B, and MRO, DRO, and GRO by EPA Method 8015D. The sample location are depicted on Figure 2. Field screening and laboratory results are summarized in Table 3. Laboratory reports are included in Appendix C.

#### 4.0 Soil Remediation Workplan

SMA proposes excavation and removal of contaminated soil, as illustrated in Figure 2. The release area will be excavated to 1.5 feet bgs. SMA will continuously guide the excavation and delineation activities by collecting composite soil samples for field screening with a mobile titration unit (EPA 4500). The release area will be excavated to the NMOCD Standards in Table 2 above. Confirmation samples will be collected from within the excavation. Approximately 1,225 cubic yards of contaminated soil is projected to be removed and replaced with clean backfill material in order to return the surface to previous contours. The contaminated soil will be transported for proper disposal at Lea Land, near Carlsbad, NM, an NMOCD permitted disposal facility.

#### 5.0 Scope and Limitations

The scope of our services consisted of the performance of assessment sampling, verification of release stabilization, regulatory liaison, and preparation of this work plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-8801 or Shawna Chubbuck at 505-325-7535.

Submitted by:

SOUDER, MILLER & ASSOCIATES

Austr Wevant

Reviewed by:

Austin Weyant Project Scientist

Shawna Chubbuck Senior Scientist

Shauna Chubbuck

Soil Remediation Workplan (2RP-4629) TOM MATTHEWS #203H of 4 February 27, 2018 Page 4

#### **ATTACHMENTS:**

#### Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Site and Sample Location Map

#### Tables:

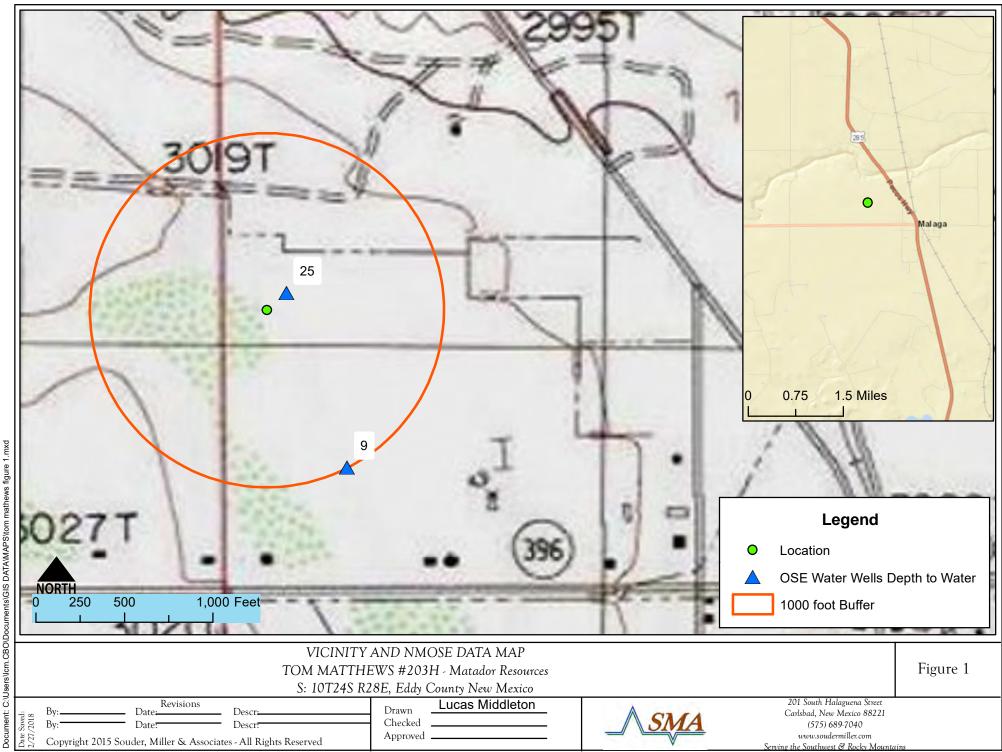
Table 3: Summary of Sample Results

#### Appendices:

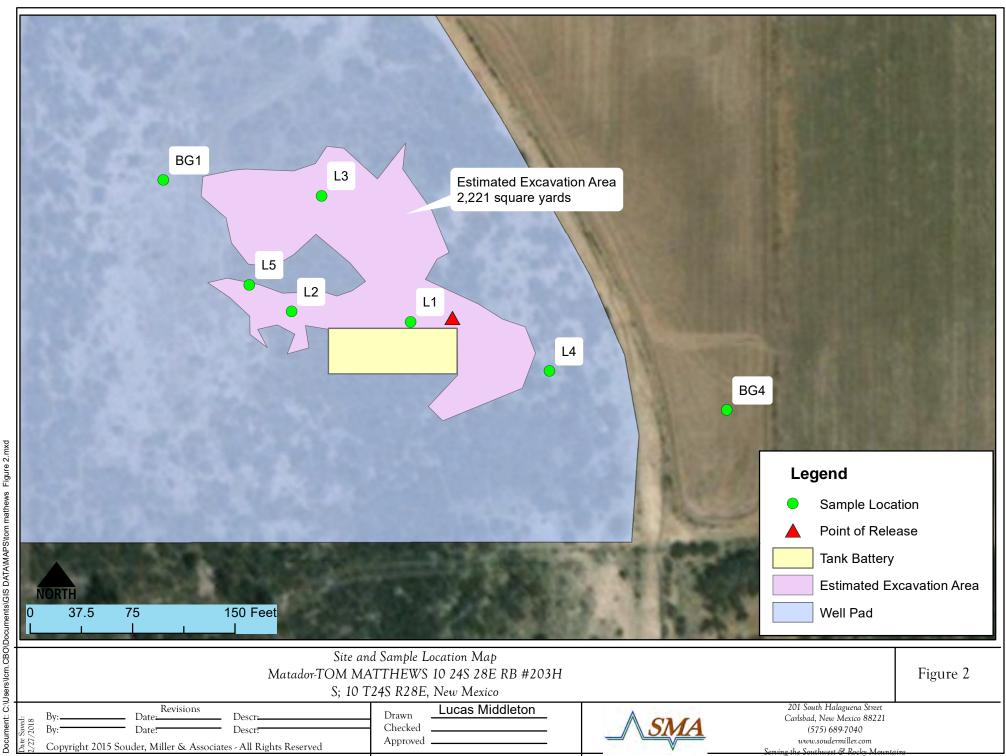
Appendix A: Form C141 Initial Appendix B: NMOSE Wells Report

Appendix C: Laboratory Analytical Reports

# FIGURE 1 VICINITY AND NMOSE DATA MAP



## FIGURE 2 SITE AND SAMPLE LOCATION MAP



## TABLE 3 SUMMARY SAMPLE RESULTS

#### Tom Mathews 10 24S 28E RB #203H

Table 3

| Sample                |                  |                     |                 | BTEX     | Benzene  | GRO   | DRO   | MRO   | Total TPH  | CI-                       | CI-                 |
|-----------------------|------------------|---------------------|-----------------|----------|----------|-------|-------|-------|------------|---------------------------|---------------------|
| Number on<br>Figure 2 | Sample Date      | Depth<br>(feet bgs) | Proposed Action | mg/Kg    | mg/Kg    | mg/Kg | mg/Kg | mg/Kg | mg/Kg      | Field<br>Screens<br>(ppm) | Laboratory<br>mg/Kg |
| N                     | NMOCD RRAL's for | or Site Rankin      | g 10            | 50 mg/Kg | 10 mg/Kg |       |       |       | 1000 mg/Kg |                           |                     |
| L1                    | 1/31/2018        | 0.5                 | Excavate        |          |          |       |       |       |            | 2128                      |                     |
| L2                    | 1/31/2018        | 0.5                 | Excavate        |          |          |       |       |       |            | 2904                      |                     |
|                       | 2/6/2018         | Surface             | Excavate        | <0.099   | <0.025   | <5    | <10   | <51   | <51        |                           | 21000               |
|                       | 2/6/2018         | 0.5                 | Excavate        |          |          |       |       |       |            |                           | 1800                |
|                       | 2/6/2018         | 1                   | Excavate        |          |          |       |       |       |            |                           | 2700                |
| L3                    | 2/6/2018         | 1.5                 | Excavate        |          |          |       |       |       |            |                           | 2300                |
|                       | 2/6/2018         | 2                   | In-Situ         |          |          |       |       |       |            |                           | 370                 |
|                       | 2/6/2018         | 2.5                 | In-Situ         |          |          |       |       |       |            |                           | 870                 |
|                       | 2/6/2018         | 3                   | In-Situ         |          |          |       |       |       |            |                           | 380                 |
|                       | 2/6/2018         | 0.5                 | In-Situ         |          |          |       |       |       |            |                           | 150                 |
| L4                    | 2/6/2018         | 1                   | In-Situ         |          |          |       |       |       |            |                           | 28                  |
| L4                    | 2/6/2018         | 2                   | In-Situ         |          |          |       |       |       |            |                           | <30                 |
|                       | 2/6/2018         | 3                   | In-Situ         |          |          |       |       |       |            |                           | 98                  |
|                       | 2/6/2018         | 0.5                 | Excavate        |          |          |       |       |       |            |                           | 1800                |
|                       | 2/6/2018         | 1                   | Excavate        |          |          |       |       |       |            |                           | 2400                |
| L5                    | 2/6/2018         | 1.5                 | Excavate        |          |          |       |       |       |            |                           | 2500                |
| LS                    | 2/6/2018         | 2                   | In-Situ         |          |          |       |       |       |            |                           | 430                 |
|                       | 2/6/2018         | 2.5                 | In-Situ         |          |          |       |       |       |            |                           | 80                  |
|                       | 2/6/2018         | 3                   | In-Situ         |          |          |       |       |       |            |                           | 89                  |
| BG1                   | 2/6/2018         | Surface             |                 |          |          |       |       |       |            |                           | 560                 |
| BG4                   | 2/6/2018         | 1.5                 |                 |          |          |       |       |       |            |                           | 500                 |
| DU4                   | 2/6/2018         | 3                   |                 |          |          |       |       |       |            |                           | 340                 |

--- = Not Analyzed

### APPENDIX A FORM C141 INITIAL

#### NM OIL CONSERVATION

ARTESIA DISTRICT

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

State of New Mexico Energy Minerals and Natural Resources

FEB 19 2018

Form C-141 Revised April 3, 2017

Submit 1 Copy to appropriate District Office in ECEIVED accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505

| 1220 S. St. Fran                                                                  | cis Dr., Santa | Fe, NM 87505    |                                         | Sa                                      | anta Fe                                 | , NM 875                                     | 05                                       |             |                                         |                                                                                                                |                                         |                                         |
|-----------------------------------------------------------------------------------|----------------|-----------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------------------|------------------------------------------|-------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------|
|                                                                                   |                |                 | Rele                                    | ease Notific                            | cation                                  | and Co                                       | rrective A                               | ction       |                                         |                                                                                                                |                                         |                                         |
| NAB180                                                                            | 051.32         | 291             |                                         | _                                       |                                         | OPERA:                                       | ГOR                                      |             | Initia                                  | l Report                                                                                                       |                                         | Final Report                            |
| Name of Co                                                                        | mpany Ma       | tador Resou     | irces Con                               | npany <i>2289</i>                       | 37                                      | Contact Cas                                  | ey Snow                                  |             |                                         | Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Ma |                                         |                                         |
| Address 540                                                                       | 00 LBJ Fre     | eway, Suite     | 1500 Da                                 | llas, TX 75240                          | 7                                       | elephone l                                   | No. (972) 371-54                         | 439         |                                         |                                                                                                                |                                         |                                         |
| Facility Nar                                                                      | ne TOM M       | IATTHEWS        | 3 10 248                                | 28E RB #203H                            | F                                       | acility Typ                                  | e Oil well                               |             |                                         |                                                                                                                |                                         |                                         |
| Surface Ow                                                                        | ner Private    |                 |                                         | Mineral C                               | Juner Pi                                | ivate                                        |                                          |             | API No                                  | . 30-015-4                                                                                                     | 4561                                    |                                         |
| Surface OW                                                                        | iici i iivaic  |                 |                                         |                                         | *************************************** |                                              |                                          |             | ATTIVO                                  | . 50-013-4                                                                                                     | 7301                                    |                                         |
| TT-14 T -44                                                                       | I 6 I          | T               | D                                       |                                         |                                         | OF RE                                        | <del></del>                              | F==4/07     | 4 T !                                   | C                                                                                                              |                                         |                                         |
| Unit Letter<br>I                                                                  | Section<br>10  | Township<br>24S | Range<br>28E                            | Feet from the 1659                      |                                         | South Line                                   | Feet from the 349                        | 1           | est Line<br>est                         | County<br>Eddy                                                                                                 |                                         |                                         |
|                                                                                   | 11             | L               | atitude_                                | _32.229673°                             | Lo                                      | ngitude                                      | 104.083370° _                            | NA          | D83                                     | ir                                                                                                             |                                         |                                         |
|                                                                                   |                |                 |                                         | NAT                                     | TURE (                                  | OF REL                                       | EASE                                     |             |                                         |                                                                                                                |                                         |                                         |
| Type of Rele                                                                      | ase Produce    | d Water         |                                         |                                         |                                         | <b>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</b> | Release 193 bbl                          | Т           | Volume R                                | ecovered 4                                                                                                     | 5 bbl                                   |                                         |
| Source of Re                                                                      |                |                 |                                         |                                         | *************************************** | Date and H                                   | lour of Occurrence                       | ce          | Date and                                | Hour of Dis                                                                                                    |                                         |                                         |
| Was Immedia                                                                       | ate Notice G   | iven?           | *************************************** | #*************************************  |                                         | 1/31/18 ~<br>If YES, To                      |                                          |             | 2/1/18 ~                                | 8:00a.m.                                                                                                       | ,                                       |                                         |
| ☐ Ycs ☐ No ☐ Not Required Mike Bratcher                                           |                |                 |                                         |                                         |                                         |                                              |                                          |             |                                         |                                                                                                                |                                         |                                         |
| By Whom? Lucas Middleton( SMA)  Date and Hour 2/1/18 12:00                        |                |                 |                                         |                                         |                                         |                                              |                                          |             |                                         |                                                                                                                |                                         |                                         |
| Was a Watercourse Reached?  ☐ Yes ☑ No  If YES, Volume Impacting the Watercourse. |                |                 |                                         |                                         |                                         |                                              |                                          |             |                                         |                                                                                                                |                                         |                                         |
| If a Watercou                                                                     | irse was Imr   | nacted Descr    | ihe Fully '                             | **************************************  | *************************************** |                                              |                                          |             |                                         |                                                                                                                |                                         |                                         |
| N/A                                                                               | r              | , <u>-</u>      | <b>y</b> .                              |                                         |                                         |                                              |                                          |             |                                         |                                                                                                                |                                         |                                         |
|                                                                                   |                |                 |                                         |                                         |                                         |                                              |                                          |             |                                         |                                                                                                                |                                         |                                         |
| Describe Cau<br>Transfer Pum                                                      |                |                 |                                         |                                         | as isolate                              | d and a vacu                                 | um truck and bac                         | ckhoe was   | s on site v                             | acuuming a                                                                                                     | ll stand                                | ling fluids                             |
|                                                                                   | -              | _               |                                         |                                         |                                         |                                              |                                          |             |                                         |                                                                                                                |                                         |                                         |
|                                                                                   |                | 1.01            |                                         |                                         |                                         |                                              |                                          |             |                                         |                                                                                                                | •·····································  |                                         |
| Describe Are                                                                      | a Affected a   | ind Cleanup A   | Action Tak                              | ∢en.*                                   |                                         |                                              |                                          |             |                                         |                                                                                                                |                                         |                                         |
| The release o                                                                     | ecurred on t   | he pad aroun    | d the tank                              | battery. SMA wi                         | ill delinea                             | te and subm                                  | it a work plan for                       | approval    | of remedi                               | ation action                                                                                                   | 18.                                     |                                         |
|                                                                                   |                |                 |                                         |                                         |                                         |                                              |                                          |             |                                         |                                                                                                                |                                         |                                         |
| I hereby certi                                                                    | fy that the in | nformation gi   | ven above                               | e is true and comp                      | plete to th                             | e best of my                                 | knowledge and u                          | understand  | d that purs                             | uant to NM                                                                                                     | iOCD r                                  | ules and                                |
| regulations al                                                                    | ll operators   | are required t  | o report ar                             | nd/or file certain i                    | release no                              | tifications a                                | nd perform correc                        | ctive actio | ons for rele                            | eases which                                                                                                    | may e                                   | ndanger                                 |
|                                                                                   |                |                 |                                         |                                         |                                         |                                              | arked as "Final R<br>ion that pose a thr |             |                                         |                                                                                                                |                                         |                                         |
|                                                                                   |                |                 |                                         |                                         |                                         |                                              | e the operator of                        |             |                                         |                                                                                                                |                                         |                                         |
| federal, state,                                                                   |                |                 |                                         | Author of a Calair                      | report ac                               | os not rene                                  | o me operator of                         | responsie   | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,  | ompna                                                                                                          | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , 04.4.                                 |
|                                                                                   | ويمد           |                 | ~                                       |                                         |                                         |                                              | OIL CON                                  | SERV        | <u>ATION</u>                            | DIVISIO                                                                                                        | <u>NC</u>                               |                                         |
| Signature:                                                                        | $\mathcal{C}$  |                 | _ /                                     |                                         |                                         |                                              |                                          |             | 1.1                                     |                                                                                                                |                                         |                                         |
| orgnature.                                                                        |                |                 |                                         | *************************************** |                                         | Annroyed hy                                  | Environmental S                          | Byate       | Alex )                                  | Exercised.                                                                                                     | - APR                                   |                                         |
| Printed Name                                                                      | e: Casey Sno   | )W              |                                         |                                         |                                         | approved by                                  | Chynomiciaa 5                            | Promise     |                                         |                                                                                                                |                                         |                                         |
| Title: Manag                                                                      | er Regulator   | v. Environm     | ental. & S                              | afetv                                   | ,                                       | Approval Da                                  | te: 2/10/18                              | E           | xpiration                               | Date: N                                                                                                        | IA                                      |                                         |
|                                                                                   |                |                 |                                         |                                         |                                         |                                              |                                          |             | *************************************** |                                                                                                                | <u> </u>                                | *************************************** |
| E-mail Addre                                                                      | ess: csnow(a   | matadorreso     | arces.com                               |                                         |                                         | Conditions o                                 | Approvat:                                | 1100        | Land                                    | Attached                                                                                                       | 'nД                                     | 11.00                                   |
| Date:                                                                             |                |                 | Phone                                   | : (972) 371-5439                        | l                                       |                                              | 5el as                                   | MU          | nen                                     | 1 Sh                                                                                                           | JD-4                                    | 1024                                    |

\* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 2/19/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 3/19/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

### APPENDIX B NMOSE WELLS REPORT



#### New Mexico Office of the State Engineer

### **Water Right Summary**

WR File Number: C 00764 Subbasin: - Cross Reference:-

Primary Purpose: IRR IRRIGATION
Primary Status: LIC LICENSED

**Total Acres:** 39.3 **Subfile:** 24 28 10 A

Total Diversion: 117.9 Cause/Case: -

Owner: MIKE M. VASQUEZ

#### **Documents on File**

|                         | Status                | From/ |       |                              |
|-------------------------|-----------------------|-------|-------|------------------------------|
| Trn # Doc File/Act      | 1 2 Transaction Desc. | То    | Acres | <b>Diversion Consumptive</b> |
| 245357 COWNP 2002-10-29 | PMT APR C 00764 A     | F     | 6.8   | 20.4                         |
| 228783 COWNF 2002-03-18 | CHG PRC C 00764       | Т     | 0     | 0                            |
| 156621 LIC 1963-11-22   | LIC PRC C-764         | Т     | 46.1  | 138.3                        |
| 156619 CLWPP 1958-08-11 | PMT APR C-764         | Т     | 0     | 0                            |
| 156619 CLWPP 1958-08-11 | PMT APR C-764         | F     | 0     | 0                            |
| 156446 ALTD 1957-05-09  | PMT PBU 6 & C-764     | Т     | 57    | 171                          |

#### **Current Points of Diversion**

Q Q Q (NAD83 UTM in meters)

| POD Number     | Source 6416 4 SecTws Rng | X Y             | Other Location Desc               |
|----------------|--------------------------|-----------------|-----------------------------------|
| <u>C 00764</u> | Shallow 3 1 3 10 24S 28E | 586399 3566292* | )                                 |
| SP 00006       | 4 1 3 12 21S 26E         | 570265 3595078  | AVALON DAM GATE<br>TO CID MAIN CA |
| SP 01927       | 4 12 24S 27E             | 581032 3566097* | BLACK RIVER                       |

<sup>\*</sup>An (\*) after northing value indicates UTM location was derived from PLSS - see Help

#### **Priority Summary**

| Priority   | Status | Acres | Diversion | Pod Number | Source  |
|------------|--------|-------|-----------|------------|---------|
| 03/22/1957 | LIC    | 39.3  | 117.9     | C 00764    | Shallow |
|            |        |       |           | SP 00006   |         |
|            |        |       |           | SP 01927   |         |

#### Place of Use

| Q   | Q  | Q  | Q |     |         |       |           |    |     |            |                            |
|-----|----|----|---|-----|---------|-------|-----------|----|-----|------------|----------------------------|
| 256 | 64 | 16 | 4 | Sec | Tws Rng | Acres | Diversion | CU | Use | Priority   | Status Other Location Desc |
|     |    |    | 3 | 10  | 24S 28E | 16.4  | 19.2      |    | IRR | 03/22/1957 | LIC                        |
|     | 1  | 1  | 3 | 10  | 24S 28E | 2.2   | 6.6       |    | IRR | 03/22/1957 | LIC                        |
|     | 1  | 4  | 3 | 10  | 24S 28E | 4.4   | 13.2      |    | IRR | 03/22/1957 | LIC                        |
|     | 2  | 1  | 3 | 10  | 24S 28E | 2.6   | 7.8       |    | IRR | 03/22/1957 | LIC                        |
|     | 2  | 4  | 3 | 10  | 24S 28E | 6.6   | 19.8      |    | IRR | 03/22/1957 | LIC                        |
|     | 3  | 1  | 3 | 10  | 24S 28E | 1.7   | 5.1       |    | IRR | 03/22/1957 | LIC                        |
|     | 4  | 1  | 3 | 10  | 24S 28E | 9.8   | 29.4      |    | IRR | 03/22/1957 | LIC                        |
|     |    |    |   |     |         |       |           |    |     |            |                            |

#### Source

Acres Diversion CU Use Priority Source Description

24 28 10 A

Source

| Acres | Diversion | CU | Use | Priority   | Source | Description |
|-------|-----------|----|-----|------------|--------|-------------|
| 46.1  | 138.3     |    | IRR | 03/22/1957 | GW     |             |
| 39.3  | 117.9     |    | IRR | 03/22/1957 | GW     |             |

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

## APPENDIX C LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

February 16, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040

FAX

RE: Tom Mathews 202 OrderNo.: 1802499

#### Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 22 sample(s) on 2/8/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**Lab Order **1802499** 

Date Reported: 2/16/2018

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Tom Mathews 202

**Lab ID:** 1802499-001

Client Sample ID: B61

**Collection Date:** 2/6/2018 11:05:00 AM **Received Date:** 2/8/2018 10:00:00 AM

 Analyses
 Result
 PQL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 560
 30
 mg/Kg
 20
 2/9/2018 1:33:22 PM
 36450

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**Analytical Report**Lab Order **1802499** 

Date Reported: 2/16/2018

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Tom Mathews 202

Lab ID:

1802499-002

Client Sample ID: B62

**Collection Date:** 2/6/2018 11:22:00 AM

Matrix: SOIL Received Date: 2/8/2018 10:00:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed        | Batch    |
|--------------------------|--------|--------|----------|-------------------------|----------|
| EPA METHOD 300.0: ANIONS |        |        |          | Anal                    | yst: MRA |
| Chloride                 | 3500   | 150    | mg/Kg    | 100 2/12/2018 4:59:54 P | M 36450  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Tom Mathews 202

**Lab ID:** 1802499-003

Client Sample ID: B63

**Collection Date:** 2/6/2018 11:30:00 AM

Received Date: 2/8/2018 10:00:00 AM

| Analyses                        | Result | PQL Qua | al Units | DF Date Analyzed       | Batch    |
|---------------------------------|--------|---------|----------|------------------------|----------|
| <b>EPA METHOD 300.0: ANIONS</b> |        |         |          | Analy                  | yst: MRA |
| Chloride                        | 2300   | 75      | mg/Kg    | 50 2/12/2018 5:37:08 P | M 36450  |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Tom Mathews 202

**Lab ID:** 1802499-004

Client Sample ID: B64-1.5

**Collection Date:** 2/6/2018 12:59:00 PM

**Received Date:** 2/8/2018 10:00:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed    | Batch       |
|--------------------------|--------|--------|----------|---------------------|-------------|
| EPA METHOD 300.0: ANIONS |        |        |          | Aı                  | nalyst: MRA |
| Chloride                 | 500    | 30     | mg/Kg    | 20 2/9/2018 2:35:24 | PM 36450    |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Tom Mathews 202

1802499-005

Client Sample ID: B64-3

**Collection Date:** 2/6/2018 1:03:00 PM

Lab ID: Matrix: SOIL **Received Date:** 2/8/2018 10:00:00 AM

| Analyses                 | Result | PQL Qua | al Units | DF Date Analyzed       | Batch    |
|--------------------------|--------|---------|----------|------------------------|----------|
| EPA METHOD 300.0: ANIONS |        |         |          | Anal                   | yst: MRA |
| Chloride                 | 340    | 30      | mg/Kg    | 20 2/9/2018 3:12:38 PM | 1 36450  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 26 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: L3-Surface

 Project:
 Tom Mathews 202
 Collection Date: 2/6/2018 12:05:00 PM

 Lab ID:
 1802499-006
 Matrix: SOIL
 Received Date: 2/8/2018 10:00:00 AM

| Analyses                       | Result       | PQL (  | Qual Units | DF | <b>Date Analyzed</b> | Batch |
|--------------------------------|--------------|--------|------------|----|----------------------|-------|
| EPA METHOD 300.0: ANIONS       |              |        |            |    | Analyst              | : CJS |
| Chloride                       | 21000        | 1500   | mg/Kg      | 1E | 2/15/2018 1:32:28 PM | 36522 |
| EPA METHOD 8015M/D: DIESEL RA  | NGE ORGANICS | 6      |            |    | Analyst              | : ТОМ |
| Diesel Range Organics (DRO)    | ND           | 10     | mg/Kg      | 1  | 2/13/2018 9:37:12 AM | 36466 |
| Motor Oil Range Organics (MRO) | ND           | 51     | mg/Kg      | 1  | 2/13/2018 9:37:12 AM | 36466 |
| Surr: DNOP                     | 108          | 70-130 | %Rec       | 1  | 2/13/2018 9:37:12 AM | 36466 |
| EPA METHOD 8015D: GASOLINE RA  | ANGE         |        |            |    | Analyst              | : NSB |
| Gasoline Range Organics (GRO)  | ND           | 5.0    | mg/Kg      | 1  | 2/9/2018 12:55:09 PM | 36440 |
| Surr: BFB                      | 133          | 15-316 | %Rec       | 1  | 2/9/2018 12:55:09 PM | 36440 |
| EPA METHOD 8021B: VOLATILES    |              |        |            |    | Analyst              | : NSB |
| Methyl tert-butyl ether (MTBE) | ND           | 0.099  | mg/Kg      | 1  | 2/9/2018 12:55:09 PM | 36440 |
| Benzene                        | ND           | 0.025  | mg/Kg      | 1  | 2/9/2018 12:55:09 PM | 36440 |
| Toluene                        | ND           | 0.050  | mg/Kg      | 1  | 2/9/2018 12:55:09 PM | 36440 |
| Ethylbenzene                   | ND           | 0.050  | mg/Kg      | 1  | 2/9/2018 12:55:09 PM | 36440 |
| Xylenes, Total                 | ND           | 0.099  | mg/Kg      | 1  | 2/9/2018 12:55:09 PM | 36440 |
| Surr: 4-Bromofluorobenzene     | 135          | 80-120 | S %Rec     | 1  | 2/9/2018 12:55:09 PM | 36440 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Tom Mathews 202

**Lab ID:** 1802499-007

Client Sample ID: L3-0.5

**Collection Date:** 2/6/2018 12:10:00 PM

**Received Date:** 2/8/2018 10:00:00 AM

| Analyses                 | Result | PQL Qua | al Units | DF Date Analyzed       | Batch    |
|--------------------------|--------|---------|----------|------------------------|----------|
| EPA METHOD 300.0: ANIONS |        |         |          | Analy                  | yst: MRA |
| Chloride                 | 1800   | 75      | mg/Kg    | 50 2/12/2018 5:49:32 P | M 36450  |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

1802499-008

Client Sample ID: L3-1

**Project:** Tom Mathews 202

Lab ID:

**Collection Date:** 2/6/2018 12:21:00 PM **Received Date:** 2/8/2018 10:00:00 AM

 Analyses
 Result
 PQL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Analyst: MRA

 Chloride
 2700
 75
 mg/Kg
 50
 2/12/2018 6:01:57 PM
 36450

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Tom Mathews 202

**Lab ID:** 1802499-009

Client Sample ID: L3-1.5

**Collection Date:** 2/6/2018 12:28:00 PM

**Matrix:** SOIL **Received Date:** 2/8/2018 10:00:00 AM

| Analyses                 | Result | PQL Qual Units |       | DF | DF Date Analyzed     |         |  |
|--------------------------|--------|----------------|-------|----|----------------------|---------|--|
| EPA METHOD 300.0: ANIONS |        |                |       |    | Analy                | st: MRA |  |
| Chloride                 | 2300   | 75             | mg/Kg | 50 | 2/12/2018 6:14:22 PI | M 36450 |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Tom Mathews 202

Lab ID: 1802499-010 Client Sample ID: L3-2

**Collection Date:** 2/6/2018 12:30:00 PM

Received Date: 2/8/2018 10:00:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Batch               |          |
|--------------------------|--------|--------|----------|----|---------------------|----------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy               | /st: MRA |
| Chloride                 | 370    | 30     | mg/Kg    | 20 | 2/9/2018 4:02:16 PM | 36450    |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 10 of 26 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Tom Mathews 202

**Lab ID:** 1802499-011

Client Sample ID: L3-2.5

**Collection Date:** 2/6/2018 12:34:00 PM

Received Date: 2/8/2018 10:00:00 AM

| Analyses                        | Result | PQL Qu | al Units | DF Date Anal   | yzed     | Batch   |
|---------------------------------|--------|--------|----------|----------------|----------|---------|
| <b>EPA METHOD 300.0: ANIONS</b> |        |        |          |                | Analys   | st: MRA |
| Chloride                        | 870    | 30     | mg/Kg    | 20 2/9/2018 4: | 14:41 PM | 36450   |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 11 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

Client Sample ID: L3-3

**Project:** Tom Mathews 202 **Collection Date:** 2/6/2018 12:40:00 PM

Lab ID: 1802499-012 Matrix: SOIL

Received Date: 2/8/2018 10:00:00 AM

| Analyses                 | Result | PQL Qu | L Qual Units DF Date A |    | DF Date Analyzed    |         |  |
|--------------------------|--------|--------|------------------------|----|---------------------|---------|--|
| EPA METHOD 300.0: ANIONS |        |        |                        |    | Analy               | st: MRA |  |
| Chloride                 | 380    | 30     | mg/Kg                  | 20 | 2/9/2018 1:10:01 PM | 36451   |  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 12 of 26 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Tom Mathews 202

**Lab ID:** 1802499-013

Client Sample ID: L4-0.5

**Collection Date:** 2/6/2018 1:15:00 PM

Matrix: SOIL Received Date: 2/8/2018 10:00:00 AM

| Analyses                        | Result | PQL Qu | al Units | DF Date Analyzed       | Batch    |
|---------------------------------|--------|--------|----------|------------------------|----------|
| <b>EPA METHOD 300.0: ANIONS</b> |        |        |          | Anal                   | yst: MRA |
| Chloride                        | 150    | 30     | mg/Kg    | 20 2/9/2018 1:47:15 PM | 1 36451  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 13 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Tom Mathews 202

Lab ID: 1802499-014 Client Sample ID: L4-1

**Collection Date:** 2/6/2018 1:30:00 PM

Matrix: SOIL **Received Date:** 2/8/2018 10:00:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed       | Batch    |
|--------------------------|--------|--------|----------|------------------------|----------|
| EPA METHOD 300.0: ANIONS |        |        |          | Analy                  | /st: MRA |
| Chloride                 | 280    | 30     | mg/Kg    | 20 2/9/2018 1:59:40 PM | 36451    |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Е Value above quantitation range

Analyte detected below quantitation limits Page 14 of 26 J

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

Tom Mathews 202

Lab ID: 1802499-015

**Project:** 

Client Sample ID: L4-2

**Collection Date:** 2/6/2018 1:32:00 PM

Matrix: SOIL **Received Date:** 2/8/2018 10:00:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF Date Analyzed |                     | Batch    |
|--------------------------|--------|--------|----------|------------------|---------------------|----------|
| EPA METHOD 300.0: ANIONS |        |        |          |                  | Analy               | yst: MRA |
| Chloride                 | ND     | 30     | mg/Kg    | 20               | 2/9/2018 2:12:04 PM | l 36451  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 15 of 26 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

Tom Mathews 202

Lab ID: 1802499-016

**Project:** 

Client Sample ID: L4-3

**Collection Date:** 2/6/2018 1:45:00 PM

Matrix: SOIL **Received Date:** 2/8/2018 10:00:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed       | Batch   |
|--------------------------|--------|--------|----------|----|---------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy               | st: MRA |
| Chloride                 | 98     | 30     | mg/Kg    | 20 | 2/9/2018 2:24:29 PM | 36451   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 16 of 26 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Tom Mathews 202

**Lab ID:** 1802499-017

Client Sample ID: L5-0.5

**Collection Date:** 2/6/2018 1:50:00 PM

**Matrix:** SOIL **Received Date:** 2/8/2018 10:00:00 AM

| Analyses                 | Result | PQL Qua | l Units | DF | Date Analyzed       | Batch    |
|--------------------------|--------|---------|---------|----|---------------------|----------|
| EPA METHOD 300.0: ANIONS |        |         |         |    | Anal                | yst: MRA |
| Chloride                 | 1800   | 75      | mg/Kg   | 50 | 2/12/2018 6:26:47 P | M 36451  |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 17 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Tom Mathews 202

1802499-018

Lab ID:

Client Sample ID: L5-1

**Collection Date:** 2/6/2018 1:55:00 PM

**Received Date:** 2/8/2018 10:00:00 AM

| Analyses                 | Result | PQL Qua | l Units | DF Date Analyzed        | Batch   |
|--------------------------|--------|---------|---------|-------------------------|---------|
| EPA METHOD 300.0: ANIONS |        |         |         | Analy                   | st: MRA |
| Chloride                 | 2400   | 75      | mg/Kg   | 50 2/12/2018 6:39:12 PM | A 36451 |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 18 of 26 J
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Tom Mathews 202 Client Sample ID: L5-1.5

**Collection Date:** 2/6/2018 2:11:00 PM

Lab ID: 1802499-019 Matrix: SOIL **Received Date:** 2/8/2018 10:00:00 AM

| Analyses                 | Result | PQL Qua | al Units | DF Date Analyzed        | Batch   |
|--------------------------|--------|---------|----------|-------------------------|---------|
| EPA METHOD 300.0: ANIONS |        |         |          | Analy                   | st: MRA |
| Chloride                 | 2500   | 75      | mg/Kg    | 50 2/12/2018 6:51:37 PM | M 36451 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 19 of 26 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Tom Mathews 202

Lab ID: 1802499-020 Client Sample ID: L5-2

**Collection Date:** 2/6/2018 2:18:00 PM

**Received Date:** 2/8/2018 10:00:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed       | Batch   |
|--------------------------|--------|--------|----------|----|---------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy               | st: MRA |
| Chloride                 | 430    | 30     | mg/Kg    | 20 | 2/9/2018 3:38:57 PM | 36451   |

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 20 of 26 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Tom Mathews 202

Client Sample ID: L5-2.5

**Collection Date:** 2/6/2018 2:30:00 PM

**Lab ID:** 1802499-021 **Matrix:** SOIL **Received Date:** 2/8/2018 10:00:00 AM

| Analyses                 | Result | PQL Qu | al Units | DF | Date Analyzed       | Batch   |
|--------------------------|--------|--------|----------|----|---------------------|---------|
| EPA METHOD 300.0: ANIONS |        |        |          |    | Analy               | st: MRA |
| Chloride                 | 80     | 30     | mg/Kg    | 20 | 2/9/2018 3:51:21 PM | 36451   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 21 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/16/2018

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Souder, Miller & Associates

**Project:** Tom Mathews 202

Lab ID: 1802499-022 Client Sample ID: L5-3

**Collection Date:** 2/6/2018 2:25:00 PM

Matrix: SOIL **Received Date:** 2/8/2018 10:00:00 AM

| Analyses                 | Result | PQL Qua | al Units | DF | Date Analyzed       | Batch   |
|--------------------------|--------|---------|----------|----|---------------------|---------|
| EPA METHOD 300.0: ANIONS |        |         |          |    | Analy               | st: MRA |
| Chloride                 | 89     | 30      | mg/Kg    | 20 | 2/9/2018 4:03:45 PM | 36451   |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 22 of 26 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

### **OC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1802499** 

16-Feb-18

Client: Souder, Miller & Associates

**Project:** Tom Mathews 202

Sample ID MB-36450 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 36450 RunNo: 49015

Prep Date: 2/9/2018 Analysis Date: 2/9/2018 SeqNo: 1578602 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-36450 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 36450 RunNo: 49015

Prep Date: 2/9/2018 Analysis Date: 2/9/2018 SeqNo: 1578603 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.7 90 110

Sample ID MB-36451 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 36451 RunNo: 49016

Prep Date: 2/9/2018 Analysis Date: 2/9/2018 SeqNo: 1578762 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-36451 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 36451 RunNo: 49016

Prep Date: **2/9/2018** Analysis Date: **2/9/2018** SeqNo: **1578763** Units: **mg/Kg** 

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.1 90 110

Sample ID MB-36522 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **36522** RunNo: **49121** 

Prep Date: 2/14/2018 Analysis Date: 2/14/2018 SeqNo: 1584649 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-36522 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 36522 RunNo: 49121

Prep Date: 2/14/2018 Analysis Date: 2/14/2018 SeqNo: 1584650 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.9 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 23 of 26

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

Result

46

4.7

9.9

WO#: **1802499** *16-Feb-18* 

Client: Souder, Miller & Associates

**Project:** Tom Mathews 202

| Sample ID 18       | 02499-006AMS  | SampTyp         | e: <b>MS</b>   | 3         | Tes         | tCode: El | PA Method | 8015M/D: Di | esel Rang  | e Organics |      |
|--------------------|---------------|-----------------|----------------|-----------|-------------|-----------|-----------|-------------|------------|------------|------|
| Client ID: L3      | -Surface      | Batch I         | D: <b>36</b>   | 466       | F           | RunNo: 4  | 9070      |             |            |            |      |
| Prep Date: 2       | /12/2018      | Analysis Dat    | e: <b>2/</b>   | 13/2018   | 5           | SeqNo: 1  | 579507    | Units: mg/k | <b>K</b> g |            |      |
| Analyte            |               | Result          | PQL            | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD       | RPDLimit   | Qual |
| Diesel Range Orga  | nics (DRO)    | 44              | 9.6            | 48.12     | 2.127       | 87.0      | 55.8      | 125         |            |            |      |
| Surr: DNOP         |               | 4.5             |                | 4.812     |             | 94.5      | 70        | 130         |            |            |      |
| Sample ID LC       | S-36466       | SampTyp         | e: LC          | s         | Tes         | tCode: El | PA Method | 8015M/D: Di | esel Rang  | e Organics |      |
| Client ID: LC      | ss            | Batch I         | D: <b>36</b>   | 466       | F           | RunNo: 4  | 9070      |             |            |            |      |
| Prep Date: 2       | /12/2018      | Analysis Dat    | e: <b>2/</b>   | 13/2018   | \$          | SeqNo: 1  | 579508    | Units: mg/l | <b>K</b> g |            |      |
| Analyte            |               | Result          | PQL            | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD       | RPDLimit   | Qual |
| Diesel Range Orga  | nics (DRO)    | 46              | 10             | 50.00     | 0           | 92.4      | 70        | 130         |            |            |      |
| Surr: DNOP         |               | 4.4             |                | 5.000     |             | 87.9      | 70        | 130         |            |            |      |
| Sample ID ME       | 3-36466       | SampTyp         | e: ME          | BLK       | Tes         | tCode: El | PA Method | 8015M/D: Di | esel Rang  | e Organics |      |
| Client ID: PB      | BS            | Batch I         | D: <b>36</b>   | 466       | F           | RunNo: 4  | 9070      |             |            |            |      |
| Prep Date: 2       | /12/2018      | Analysis Dat    | e: <b>2/</b>   | 13/2018   | 5           | SeqNo: 1  | 579509    | Units: mg/l | <b>K</b> g |            |      |
| Analyte            |               | Result          | PQL            | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD       | RPDLimit   | Qual |
| Diesel Range Orga  | nics (DRO)    | ND              | 10             |           |             |           |           |             |            |            |      |
| Motor Oil Range Oi | rganics (MRO) | ND              | 50             |           |             |           |           |             |            |            |      |
| Surr: DNOP         |               | 10              |                | 10.00     |             | 102       | 70        | 130         |            |            |      |
| Sample ID 18       | 02499-006AMSE | <b>S</b> ampTyp | e: <b>M</b> \$ | SD        | Tes         | tCode: El | PA Method | 8015M/D: Di | esel Rang  | e Organics |      |
| Client ID: L3      | -Surface      | Batch I         | D: <b>36</b>   | 466       | F           | RunNo: 4  | 9070      |             |            |            |      |
| Prep Date: 2       | /12/2018      | Analysis Dat    | e: <b>2/</b>   | 13/2018   | 5           | SeqNo: 1  | 580359    | Units: mg/k | <b>K</b> g |            |      |

SPK value SPK Ref Val

2.127

49.26

4.926

#### Qualifiers:

Analyte

Surr: DNOP

Diesel Range Organics (DRO)

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range

%REC

89.4

96.0

LowLimit

55.8

70

HighLimit

125

130

%RPD

4.89

0

**RPDLimit** 

20

0

Page 24 of 26

Qual

- J Analyte detected below quantitation limits
- D. Camala all Nat la Danas
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1802499

16-Feb-18

**Client:** Souder, Miller & Associates

**Project:** Tom Mathews 202

Sample ID MB-36440 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: **PBS** Batch ID: 36440 RunNo: 49018 Prep Date: 2/8/2018 Analysis Date: 2/9/2018 SeqNo: 1578201 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 110 15 1100 316

Sample ID LCS-36440 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 36440 RunNo: 49018

1000

Prep Date: 2/8/2018 Analysis Date: 2/9/2018 SeqNo: 1578202 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 5.0 25.00 0 102 75.9 131 1200

116

15

316

#### Qualifiers:

Surr: BFB

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Released to Imaging: 10/1/2024 11:13:49 AM

Page 25 of 26

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1802499** 

16-Feb-18

Client: Souder, Miller & Associates

**Project:** Tom Mathews 202

| Sample ID MB-36440             | SampT      | уре: МЕ         | BLK       | Tes         | tCode: E | PA Method | 8021B: Volat | iles |          |      |
|--------------------------------|------------|-----------------|-----------|-------------|----------|-----------|--------------|------|----------|------|
| Client ID: PBS                 | Batch      | n ID: <b>36</b> | 440       | F           | RunNo: 4 | 9018      |              |      |          |      |
| Prep Date: 2/8/2018            | Analysis D | oate: 2/        | 9/2018    | 5           | SeqNo: 1 | 578215    | Units: mg/k  | (g   |          |      |
| Analyte                        | Result     | PQL             | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit    | %RPD | RPDLimit | Qual |
| Methyl tert-butyl ether (MTBE) | ND         | 0.10            |           |             |          |           |              |      |          |      |
| Benzene                        | ND         | 0.025           |           |             |          |           |              |      |          |      |
| Toluene                        | ND         | 0.050           |           |             |          |           |              |      |          |      |
| Ethylbenzene                   | ND         | 0.050           |           |             |          |           |              |      |          |      |
| Xylenes, Total                 | ND         | 0.10            |           |             |          |           |              |      |          |      |
| Surr: 4-Bromofluorobenzene     | 1.2        |                 | 1.000     |             | 115      | 80        | 120          |      |          |      |

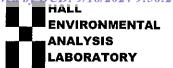
| Sample ID LCS-36440            | Samp       | Гуре: <b>LC</b> | s         | Tes         | tCode: E | PA Method | 8021B: Vola | tiles      |          |      |
|--------------------------------|------------|-----------------|-----------|-------------|----------|-----------|-------------|------------|----------|------|
| Client ID: LCSS                | Batc       | h ID: 36        | 440       | F           | RunNo: 4 | 9018      |             |            |          |      |
| Prep Date: 2/8/2018            | Analysis [ | Date: <b>2/</b> | 9/2018    | 5           | SeqNo: 1 | 578216    | Units: mg/h | <b>(</b> g |          |      |
| Analyte                        | Result     | PQL             | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD       | RPDLimit | Qual |
| Methyl tert-butyl ether (MTBE) | 0.92       | 0.10            | 1.000     | 0           | 92.3     | 70.1      | 121         |            |          |      |
| Benzene                        | 1.0        | 0.025           | 1.000     | 0           | 103      | 77.3      | 128         |            |          |      |
| Toluene                        | 1.0        | 0.050           | 1.000     | 0           | 104      | 79.2      | 125         |            |          |      |
| Ethylbenzene                   | 1.0        | 0.050           | 1.000     | 0           | 104      | 80.7      | 127         |            |          |      |
| Xylenes, Total                 | 3.2        | 0.10            | 3.000     | 0           | 107      | 81.6      | 129         |            |          |      |
| Surr: 4-Bromofluorobenzene     | 1.2        |                 | 1.000     |             | 116      | 80        | 120         |            |          |      |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
  - S % Recovery outside of range due to dilution or matrix
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

7 maryte detected in the associated Method Blank

Page 26 of 26



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

# Sample Log-In Check List

| Client Name:       | SMA-CARLSBAD                                         | Work Order Number:       | 1802499                                 |                   | RcptNo                                                                                                          | 1                 |
|--------------------|------------------------------------------------------|--------------------------|-----------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------|-------------------|
| Received By:       | Sophia Campuzano                                     | 2/8/2018 10:00:00 AM     |                                         | Sopher Conju      | ur nam                                                                                                          |                   |
| Completed By:      | Dennis Suazo                                         | 2/8/2018 12:29:01 PM     |                                         | Sophe Caye        | ····                                                                                                            |                   |
| Reviewed By:       | ERRE 02/08/17                                        | 1                        |                                         | 7                 | 0                                                                                                               |                   |
| Labeled            | by Ama                                               |                          |                                         |                   |                                                                                                                 |                   |
| Chain of Cus       | tody                                                 |                          |                                         |                   |                                                                                                                 |                   |
|                    | ustody complete?                                     |                          | Yes 🗹                                   | No 🗆              | Not Present                                                                                                     |                   |
| 2. How was the     | sample delivered?                                    |                          | <u>Courier</u>                          |                   |                                                                                                                 |                   |
| <u>Log In</u>      |                                                      |                          |                                         |                   |                                                                                                                 |                   |
| 3. Was an attem    | pt made to cool the samples?                         | •                        | Yes 🗹                                   | No 🗌              | NA 🗀                                                                                                            |                   |
| 4. Were all samp   | ples received at a temperature                       | of >0° C to 6.0°C        | Yes 🗹                                   | No 🗌              | NA 🗆                                                                                                            |                   |
| 5. Sample(s) in p  | proper container(s)?                                 |                          | Yes 🗹                                   | No 🗆              |                                                                                                                 |                   |
| 6. Sufficient sam  | ple volume for indicated test(                       | 3)?                      | Yes 🔽                                   | No 🗌              |                                                                                                                 |                   |
| 7. Are samples (   | except VOA and ONG) proper                           | ly preserved?            | Yes 🔽                                   | No 🗌              |                                                                                                                 |                   |
| 8. Was preservat   | tive added to bottles?                               |                          | Yes 🗌                                   | No 🔽              | NA 🗆                                                                                                            |                   |
| 9. VOA vials have  | e zero headspace?                                    |                          | Yes 🔲                                   | No 🗀              | No VOA Vials 🗹                                                                                                  |                   |
| 10, Were any san   | nple containers received broke                       | en?                      | Yes 🗌                                   | No 🗹              | # of preserved                                                                                                  |                   |
|                    | rk match bottle labels?                              |                          | Yes 🗹                                   | No 🗆              | bottles checked<br>for pH:                                                                                      | >12 unless noted) |
|                    | correctly identified on Chain of                     | Custody?                 | Yes 🗹                                   | No 🗆              | Adjusted?                                                                                                       | - 12 umess noted) |
|                    | analyses were requested?                             |                          | Yes 🗹                                   | No 🗆              | <del></del> .                                                                                                   | • •               |
|                    | ng times able to be met? ustomer for authorization.) |                          | Yes 🗹                                   | No 🗌              | Checked by:                                                                                                     |                   |
| Special Handli     | ing (if applicable)                                  |                          |                                         |                   |                                                                                                                 |                   |
| 15. Was client no  | tified of all discrepancies with                     | this order?              | Yes 🗌                                   | No 🗌              | NA 🗹                                                                                                            |                   |
| Person             | Notified:                                            | Date:                    | *************************************** |                   |                                                                                                                 |                   |
| By Who             | m:                                                   | Via:                     | eMail _                                 | ] Phone 🗌 Fax     | In Person                                                                                                       |                   |
| Regardi            | ng:                                                  |                          |                                         | W. Allen Commence | akke tika kita sebagai sidakin sebagai menandan mendira kita ini menanda sebagai menanda sebagai menanda sebaga |                   |
| Client In          | structions:                                          |                          |                                         |                   |                                                                                                                 | I                 |
| 16. Additional ren | narks:                                               |                          |                                         |                   |                                                                                                                 |                   |
| 17. Cooler Inform  | <u>mation</u>                                        |                          |                                         |                   |                                                                                                                 |                   |
| Cooler No          | Temp °C   Condition   S                              | eal Intact   Seal No   S | eal Date                                | Signed By         |                                                                                                                 |                   |
| [1,                | 0.3 Good No                                          | t Present                |                                         |                   |                                                                                                                 |                   |
|                    |                                                      |                          |                                         |                   |                                                                                                                 |                   |

| Mailing Address: Phone #:  email or Fax#:  QA/QC Package:  □ Standard  □ Level 4 (Full Validation) | Project Name:          | 1          |                        |                   |            |                           |                           | 1                         | 1         | 1                                       |                           | d                |
|----------------------------------------------------------------------------------------------------|------------------------|------------|------------------------|-------------------|------------|---------------------------|---------------------------|---------------------------|-----------|-----------------------------------------|---------------------------|------------------|
| □ Level 4 (Full Validation)                                                                        | 1.1.1                  | 14         |                        |                   | 3          | WW. D                     | www.hallenvironmental.com | numer                     | 127       | mc                                      | www.hallenvironmental.com | <i>by 0</i>      |
| □ Level 4 (Full Validation)                                                                        | 100 / 10/20            | 3 202      | 4                      | 1901 H            | awkin      | NE S                      | Albu                      | nerdi                     | Z         | 4901 Hawkins NE - Albuquerque, NM 87109 | 0                         | CD:              |
| □ Level 4 (Full Validation)                                                                        | Project #:             |            |                        | Tel. 505-345-3975 | 5-345      | -3975                     | Fax                       | × 505 ×                   | 345       | 505-345-4107                            |                           | 9/18             |
| □ Level 4 (Full Validation)                                                                        |                        |            |                        |                   |            |                           | Analysis Request          | is Rec                    | inesi     | 200                                     |                           | 3/202            |
|                                                                                                    | Project Manager:       |            | -                      |                   |            | _                         |                           | -                         |           |                                         |                           | 24 9.            |
|                                                                                                    |                        |            |                        |                   |            | (SMI                      | 00                        |                           |           |                                         |                           | :56:21 /         |
| uo                                                                                                 | Sampler: CM            |            |                        |                   |            |                           | 01                        | _                         |           |                                         |                           | $AM_{\parallel}$ |
| □ NELAP □ Other                                                                                    | □ sa, X                | No         |                        |                   |            |                           |                           |                           |           | (∀                                      |                           | M 4              |
| □ EDD (Type)                                                                                       | 1-8-1                  | .0(cF)=0.3 |                        |                   |            |                           | _                         |                           | _         | ′ΟΛ-                                    |                           | V //             |
| Date Time Matrix Sample Request ID Type                                                            | Container Preservative | HEAL NO.   | TM + X3T8<br>TM + X3T8 | 82108 H9T         | TPH (Metho | orieM) 803<br>0168) 2'HA9 | M 8 ARDS                  | Anions (RC<br>3081 Pestic | SSEOB (VO | mə8) 07S                                |                           | ञ्चाततात्र गा    |
| 11:05 50.1 1361                                                                                    | 704                    | 100        |                        |                   |            |                           | -                         | -                         | -         | 3                                       |                           | 1                |
| 1 1122 1362                                                                                        |                        | 200        |                        |                   |            |                           | ~                         | V                         | ==        |                                         |                           |                  |
| 11.33 \ 1363                                                                                       |                        | 003        |                        |                   |            |                           | ~                         | ×                         |           |                                         |                           | -                |
| 1257 1364 -1.5                                                                                     |                        | 600        |                        |                   |            | -                         | +                         |                           |           |                                         |                           |                  |
| 1:3 1.364-3                                                                                        |                        | 500        |                        |                   | Ħ          |                           | ,                         | ×                         |           |                                         |                           |                  |
| 12:05 / L3 - Surface                                                                               |                        | 900        | ×                      | X                 |            |                           | ^                         | ×                         | Ä         |                                         |                           |                  |
| 1210 1 63 - 0.5                                                                                    |                        | 007        |                        |                   |            |                           | _                         | ×                         |           |                                         |                           | _                |
| 1221 1 13 - 1                                                                                      |                        | 008        |                        |                   |            |                           | ×.                        | X                         |           |                                         |                           |                  |
| 124 1.3 - 1.5                                                                                      |                        | 000        |                        |                   |            |                           | X,                        | ×                         | I         |                                         |                           |                  |
| 1 (230 / 123 - 2                                                                                   |                        | 010        |                        |                   |            |                           | 23                        | ×                         |           |                                         |                           |                  |
| V 12:34 / 1.3 - 2.5                                                                                | 11                     | 011        |                        |                   |            |                           | ^                         | ×                         |           |                                         |                           |                  |
| 1240 W L3 - 3                                                                                      | N                      | 210        |                        |                   |            |                           | _                         | ×                         | Ţ         |                                         |                           |                  |
| Date: Time Relinquished Py Rece                                                                    | RECEIVED BY.           | pate Time  | Remark                 | 1                 |            |                           | i i                       |                           |           |                                         |                           |                  |
| The Holling Receipt of Ship Ship Ship Ship Ship Ship Ship Ship                                     | Total COUNTED Date     | 5/12 1000  |                        |                   |            |                           |                           |                           |           |                                         |                           | age 854          |

| Client        |                  | S               | 5 MA                        | □ Standard              | Z-Rush               | 5 da          |           | U                 | 28           | 1                         | TO                          | ) 4          | 000                   | ANAL ENVIRONMENTAL |
|---------------|------------------|-----------------|-----------------------------|-------------------------|----------------------|---------------|-----------|-------------------|--------------|---------------------------|-----------------------------|--------------|-----------------------|--------------------|
|               | 1                |                 | Collect                     | Project Name:           |                      | 273           | n         |                   | WWW          | www.hallenvironmental.com | CTUDE                       | ntal co      | 2 5                   | 2                  |
| Mailing       | Mailing Address: | 12              |                             | 9                       | 1 Jak                | 205           | 45        | 4901 Hawkins NE - | vkins N      |                           | Janera                      | Nen          | Albuquerque, NM 87109 |                    |
|               |                  |                 |                             | Project #:              |                      |               | F         | Tel. 505-         | 505-345-3975 |                           | Fax 508                     | 505-345-4107 | 4107                  |                    |
| Phone #       | #                |                 |                             |                         |                      |               |           |                   |              | Analy                     |                             | quest        |                       |                    |
| email         | email or Fax#.   |                 |                             | Project Manager:        | ger:                 |               |           | -                 |              | -                         |                             |              |                       |                    |
| QA/QC Packa   | QA/QC Package:   |                 | ☐ Level 4 (Full Validation) | A                       | 75%                  | Now           |           |                   |              | (SWIS)                    |                             | 0.00         |                       |                    |
| Accreditation | itation          | □ Other         |                             | Sampler: On log:        | W Yes                | O.N.O         |           | 40 / O            |              | S 0728                    |                             | 3000 /       | ()                    |                    |
| D ED          | □ EDD (Type)     |                 |                             | Sample Temperature:     | 1.3                  |               |           | (GB               |              |                           | -                           | _            | /O/-                  |                    |
| Date          | Date Time        | Matrix San      | Sample Request ID           | Container<br>Type and # | Preservative<br>Type | HEAL NO.      | BTEX + MT | 82108 H9T         | TPH (Metho   | РАН S (831<br>ВСRА В Ме   | O.)H) enoinA<br>oitee9 1808 | (OV) 809S8   | imə2) 07S8            |                    |
| 8F9-          | 17.15            | Soil            | 74.0.5                      | 102                     |                      | 013           |           |                   |              |                           |                             | _            |                       |                    |
| 47            | 15.30            |                 | (4-1)                       | 1                       |                      | 014           |           |                   |              |                           | 7                           |              |                       |                    |
|               | (33)             |                 | 10-2                        |                         |                      | 015           |           |                   |              |                           | S                           |              |                       |                    |
|               | 54.7             |                 | (4-3                        |                         |                      | 016           |           |                   |              |                           | ×                           |              |                       |                    |
|               | 0:1              |                 | 1.9-0.5                     |                         |                      | C10           |           |                   |              |                           | ×                           |              |                       |                    |
|               | 1.59             |                 | 1-8-1                       |                         |                      | 85            |           |                   |              |                           | ×                           |              |                       |                    |
|               | 2.11             |                 | (5-1.5                      |                         |                      | 019           |           |                   |              |                           | ×                           | Ξ            |                       |                    |
|               | 2:16             |                 | 15-2                        |                         |                      | 020           |           |                   |              | E                         | ×                           |              |                       | T.                 |
|               | 2:30             | _               | (5-2.5                      |                         |                      | 120           |           |                   |              |                           | k                           |              |                       |                    |
| 1             | 2:25             | ١               | (5-3                        | 7                       |                      | 022           |           |                   |              |                           | X                           |              |                       |                    |
| -7-1\$        | 250              | Relinquished by | an My                       | Receivedon              |                      | Date Time     | Remark    | 13                | 1            |                           |                             |              |                       |                    |
| 2 7/18        | Time:            | Reling          | No. 1                       | Received by:            | COUVIE               | OZ/OS/IF ICED |           |                   |              |                           |                             |              |                       |                    |

From: Lucas Middleton

To: Weaver, Crystal, EMNRD

Cc: Csnow (Csnow@matadorresources.com)

Subject: RE: Tom Mathews C141 Initial

Date: Monday, April 2, 2018 3:27:39 PM

Attachments: <u>image003.png</u>

image004.png

SOIL REMEDIATION WORK PLAN FOR THE TOM MATTHEWS #203H RELEASE (2RP-.pdf

#### Crystal,

As included below I submitted the work plan on March 7, 2018.

From: Lucas Middleton

**Sent:** Wednesday, March 07, 2018 10:52 AM

To: 'Bratcher, Mike, EMNRD' <mike.bratcher@state.nm.us>; 'Weaver, Crystal, EMNRD'

<Crystal.Weaver@state.nm.us>

**Cc:** 'John Hurt' <JHurt@matadorresources.com>; Csnow (Csnow@matadorresources.com)

<Csnow@matadorresources.com>

Subject: SOIL REMEDIATION WORK PLAN FOR THE TOM MATTHEWS #203H RELEASE (2RP-4629) API

# 30-015- 44561

#### Good Morning,

On behalf of Matador Resources, SMA is submitting a soil remediation work plan for TOM MATTHEWS #203H. 2RP-4629, API # 30-015- 44561.

Thank you and have a great day

Lucas Middleton Staff GeoScientist (575) 499-9244 (mobile)



Souder, Miller & Associates
Engineering Environmental Surveying
201 S. Halagueno
Carlsbad, NM 88220

www.soudermiller.com

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From: Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us>

**Sent:** Monday, April 02, 2018 1:57 PM

**To:** Lucas Middleton < lucas.middleton@soudermiller.com>; Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>

**Cc:** Csnow (Csnow@matadorresources.com) < Csnow@matadorresources.com>

Subject: RE: Tom Mathews C141 Initial

RE: Matador \* Tom Matthews 10 24S 28E RB #203H \* 30-015-44561 \* 2RP-4629

Casey/Lucas,

I have included a scanned copy of the signed Initial C-141 Remediation Permit along with an attached Conditions of Approval (COA). The OCD tracking number for this event is 2RP-4629, please refer to this tracking number on any and all submissions sent in to the OCD. Please remit a site characterization plan (see COA document included in attachment) or advise OCD of plan of action immediately since this one has a due date of 3/19/18 and that has passed.

Thank you,

#### **Crystal Weaver**

Environmental Specialist OCD – Artesia District II 811 S. 1<sup>st</sup> Street

Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963 Fax: 575-748-9720

**From:** Lucas Middleton [mailto:lucas.middleton@soudermiller.com]

**Sent:** Monday, February 19, 2018 10:02 AM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD

<<u>Crystal.Weaver@state.nm.us</u>> **Subject:** Tom Mathews C141 Initial

Hello,

I am submitting a C141 Initial for Matador Resources for Tom Mathews 10 24S28E RB #203H which occurred on 1/31/18.

Lucas Middleton Staff GeoScientist (575) 499-9244 (mobile)



Souder, Miller & Associates Engineering Environmental Surveying 201 S. Halagueno Carlsbad, NM 88220

www.soudermiller.com

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From: Weaver, Crystal, EMNRD

To: "Lucas Middleton"

Cc: Csnow (Csnow@matadorresources.com); Bratcher, Mike, EMNRD

Subject: RE: Tom Mathews C141 Initial

Date: Monday, April 2, 2018 3:34:00 PM

Attachments: <u>image001.png</u>

image002.png

Lucas,

You are correct. I forgot to adjust that last sentence in my prewritten paragraph portion. I did know you had sent in a work plan cause I had seen the work plan in the que. Please disregard the last sentence asking for an update/submission.

Thanks,

# **Crystal Weaver**

Environmental Specialist OCD – Artesia District II 811 S. 1<sup>st</sup> Street Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963 Fax: 575-748-9720

**From:** Lucas Middleton [mailto:lucas.middleton@soudermiller.com]

Sent: Monday, April 2, 2018 3:27 PM

To: Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us>

**Cc:** Csnow (Csnow@matadorresources.com) < Csnow@matadorresources.com>

Subject: RE: Tom Mathews C141 Initial

Crystal,

As included below I submitted the work plan on March 7, 2018.

**From:** Lucas Middleton

**Sent:** Wednesday, March 07, 2018 10:52 AM

To: 'Bratcher, Mike, EMNRD' < mike.bratcher@state.nm.us >; 'Weaver, Crystal, EMNRD'

<<u>Crystal.Weaver@state.nm.us</u>>

**Cc:** 'John Hurt' < <u>JHurt@matadorresources.com</u>>; Csnow (<u>Csnow@matadorresources.com</u>)

<<u>Csnow@matadorresources.com</u>>

Subject: SOIL REMEDIATION WORK PLAN FOR THE TOM MATTHEWS #203H RELEASE (2RP-4629) API

# 30-015- 44561

Good Morning,

On behalf of Matador Resources, SMA is submitting a soil remediation work plan for TOM MATTHEWS #203H. 2RP-4629, API # 30-015- 44561.

Thank you and have a great day

Lucas Middleton Staff GeoScientist (575) 499-9244 (mobile)



Souder, Miller & Associates
Engineering Environmental Surveying
201 S. Halagueno
Carlsbad, NM 88220
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**From:** Weaver, Crystal, EMNRD < <u>Crystal.Weaver@state.nm.us</u>>

Sent: Monday, April 02, 2018 1:57 PM

To: Lucas Middleton < <u>lucas.middleton@soudermiller.com</u>>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>

**Cc:** Csnow (<u>Csnow@matadorresources.com</u>) < <u>Csnow@matadorresources.com</u>>

Subject: RE: Tom Mathews C141 Initial

RE: Matador \* Tom Matthews 10 24S 28E RB #203H \* 30-015-44561 \* 2RP-4629

Casey/Lucas,

I have included a scanned copy of the signed Initial C-141 Remediation Permit along with an attached Conditions of Approval (COA). The OCD tracking number for this event is 2RP-4629, please refer to this tracking number on any and all submissions sent in to the OCD. Please remit a site characterization plan (see COA document included in attachment) or advise OCD of plan of action immediately since this one has a due date of 3/19/18 and that has passed.

Thank you,

#### **Crystal Weaver**

Environmental Specialist OCD – Artesia District II

811 S. 1<sup>st</sup> Street Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963 Fax: 575-748-9720

From: Lucas Middleton [mailto:lucas.middleton@soudermiller.com]

**Sent:** Monday, February 19, 2018 10:02 AM

To: Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us >; Weaver, Crystal, EMNRD

<<u>Crystal.Weaver@state.nm.us</u>> **Subject:** Tom Mathews C141 Initial

Hello,

I am submitting a C141 Initial for Matador Resources for Tom Mathews 10 24S28E RB #203H which occurred on 1/31/18.

Lucas Middleton Staff GeoScientist (575) 499-9244 (mobile)



www.soudermiller.com

Souder, Miller & Associates Engineering Environmental Surveying 201 S. Halagueno Carlsbad, NM 88220

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From: <u>Bayliss, Randolph, EMNRD</u>

To: <u>Lucas Middleton</u>

Cc: John Hurt; Csnow; Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Griswold, Jim, EMNRD

Subject: APPROVAL FOR SOIL REMEDIATION WORK PLAN FOR THE TOM MATTHEWS #203H RELEASE (2RP-4629) API #

30-015- 44561

**Date:** Thursday, April 19, 2018 11:19:04 AM

Attachments: <u>image001.png</u>

RE: MATADOR \* TOM MATTHEWS #203H \* 2RP-4629 \* DOR: 1/31/18

Matador's proposal for remedial actions is approved. Following remediation, Matador shall submit a Closure Report with results of confirmation sampling. Please submit a proposed schedule for remediation and reporting.

Thank you,

On behalf of NMOCD District 2 811 South First Street Artesia, NM 88210

Randolph Bayliss, P.E.

Hydrologist

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and

remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In

addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local

laws.

From:

Sent: Wednesday, March 7, 2018 10:52 AM

To: Cc:

**Subject:** SOIL REMEDIATION WORK PLAN FOR THE TOM MATTHEWS #203H RELEASE (2RP-4629) API

# 30-015- 44561

Good Morning,

On behalf of Matador Resources, SMA is submitting a soil remediation work plan for TOM MATTHEWS #203H. 2RP-4629, API # 30-015- 44561.

Thank you and have a great day

Lucas Middleton Staff GeoScientist (575) 499-9244 (mobile)



Souder, Miller & Associates
Engineering Environmental Surveying
201 S. Halagueno
Carlsbad, NM 88220
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From: <u>Ashley Giovengo</u>
To: <u>Wells, Shelly, EMNRD</u>

Subject: [EXTERNAL] RE: NAPP2332849245 CHARLIE SWEENY FED TANK BATTERY

**Date:** Tuesday, October 1, 2024 9:22:18 AM

**Attachments:** image001.png image002.png

image002.png

20240930 Charlie Sweeney Fed TB fig5 v6 JV.pdf 20240930 Charlie Sweeney Fed TB fig4 v8 JV.pdf

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Morning Shelly,

Please see the corrected figures; I apologize for the inconvenience.

Thanks,



"Your authenticity is your superpower." - Unknown

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

**Sent:** Monday, September 30, 2024 10:47 AM **To:** Ashley Giovengo <agiovengo@ensolum.com>

Subject: NAPP2332849245 CHARLIE SWEENY FED TANK BATTERY

### [ \*\*EXTERNAL EMAIL\*\*]

Hi Ashley,

I am reviewing the submitted deferral request for the following incident, NAPP2332849245 CHARLIE SWEENY FED TANK BATTERY and have a question for you. Figure 5 is missing SW06. SW08 appears twice. Can you please update this so I can see where each SW is located?

Kind regards,

Shelly

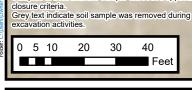
Shelly Wells \* Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division

1220 S. St. Francis Drive|Santa Fe, NM 87505 (505)469-7520|Shelly.Wells@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

FS28@1'

FS31@2'

FS32@1'



Sample ID @ Depth Below Ground Surface.
Samples in bold indicate sample exceeded applicable

# **Confirmation Soil Sample Locations**

Matador Production Company Charlie Sweeney Fed TB Incident Number: nAPP2332849245 Unit P, Section 31, Township 23S, Range 28E Eddy Co., New Mexico

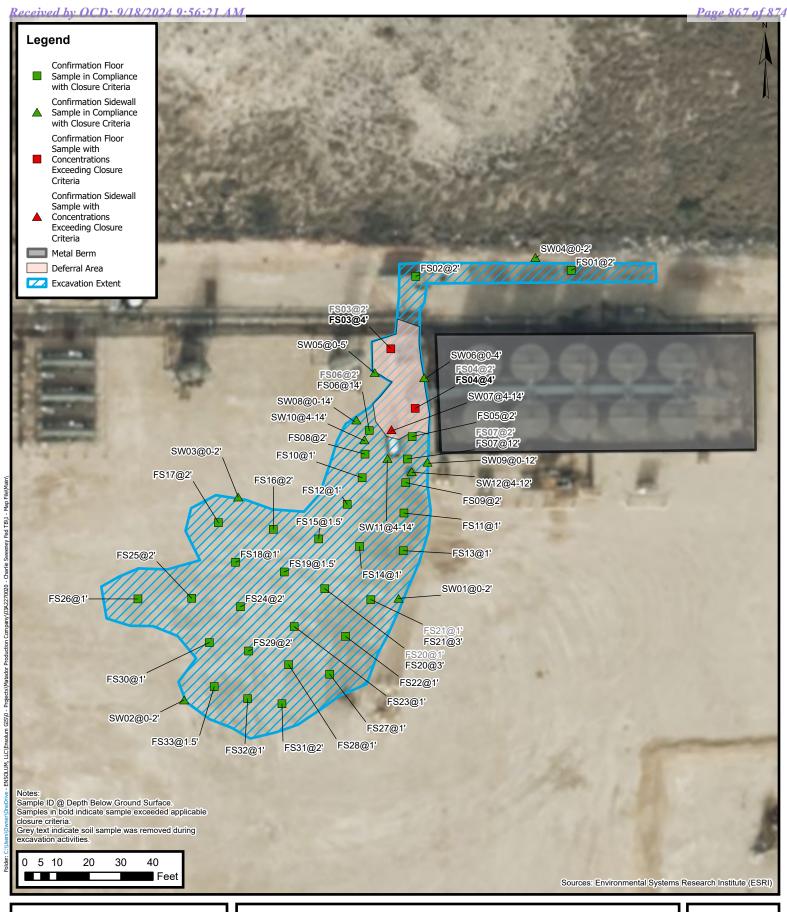
**FIGURE** 

Sources: Environmental Systems Research Institute (ESRI)

Released to Imaging: 10/1/2024 11:13:49 AM

Environmental, Engineering and

Hydrogeologic Consultants





# **Area of Requested Deferral**

Matador Production Company Charlie Sweeney Fed TB Incident Number: nAPP2332849245 Unit P, Section 31, Township 23S, Range 28E Eddy Co., New Mexico FIGURE 5

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

QUESTIONS

Action 384550

#### **QUESTIONS**

| Operator:                  | OGRID:                                            |
|----------------------------|---------------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                            |
| One Lincoln Centre         | Action Number:                                    |
| Dallas, TX 75240           | 384550                                            |
|                            | Action Type:                                      |
|                            | [C-141] Deferral Request C-141 (C-141-v-Deferral) |

#### QUESTIONS

| Prerequisites    |                                                    |
|------------------|----------------------------------------------------|
| Incident ID (n#) | nAPP2332849245                                     |
| Incident Name    | NAPP2332849245 CHARLIE SWEENY FED TANK BATTERY @ 0 |
| Incident Type    | Produced Water Release                             |
| Incident Status  | Deferral Request Received                          |

| Location of Release Source                     |            |
|------------------------------------------------|------------|
| Please answer all the questions in this group. |            |
| Site Name CHARLIE SWEENY FED TANK BATTERY      |            |
| Date Release Discovered                        | 11/24/2023 |
| Surface Owner                                  | Private    |

| Incident Details                                                                                     |                        |
|------------------------------------------------------------------------------------------------------|------------------------|
| Please answer all the questions in this group.                                                       |                        |
| Incident Type                                                                                        | Produced Water Release |
| Did this release result in a fire or is the result of a fire                                         | No                     |
| Did this release result in any injuries                                                              | No                     |
| Has this release reached or does it have a reasonable probability of reaching a watercourse          | No                     |
| Has this release endangered or does it have a reasonable probability of endangering public health    | No                     |
| Has this release substantially damaged or will it substantially damage property or the environment   | No                     |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No                     |

| lature and Volume of Release                                                                                                                         |                                                                                                         |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--|
| Material(s) released, please answer all that apply below. Any calculations or specific justifications fo                                             | or the volumes provided should be attached to the follow-up C-141 submission.                           |  |
| Crude Oil Released (bbls) Details                                                                                                                    | Not answered.                                                                                           |  |
| Produced Water Released (bbls) Details                                                                                                               | Cause: Equipment Failure   Pump   Produced Water   Released: 67 BBL   Recovered: 35 BBL   Lost: 32 BBL. |  |
| Is the concentration of chloride in the produced water >10,000 mg/l                                                                                  | Yes                                                                                                     |  |
| Condensate Released (bbls) Details                                                                                                                   | Not answered.                                                                                           |  |
| Natural Gas Vented (Mcf) Details                                                                                                                     | Not answered.                                                                                           |  |
| Natural Gas Flared (Mcf) Details                                                                                                                     | Not answered.                                                                                           |  |
| Other Released Details                                                                                                                               | Not answered.                                                                                           |  |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | Seal on SWD pump failed causing release.                                                                |  |

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505

# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 384550

| Phone:(505) 476-3470 Fax:(505) 476-3462                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| QUEST                                                                                                                                                                                    | TONS (continued)                                                                                                                                                                                                                                                                                                                                                                                 |
| Operator:  MATADOR PRODUCTION COMPANY  One Lincoln Centre                                                                                                                                | OGRID: 228937 Action Number:                                                                                                                                                                                                                                                                                                                                                                     |
| Dallas, TX 75240                                                                                                                                                                         | 384550 Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)                                                                                                                                                                                                                                                                                                                            |
| QUESTIONS                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                  |
| Nature and Volume of Release (continued)                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                  |
| Is this a gas only submission (i.e. only significant Mcf values reported)                                                                                                                | No, according to supplied volumes this does not appear to be a "gas only" report.                                                                                                                                                                                                                                                                                                                |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC                                                                                                                   | Yes                                                                                                                                                                                                                                                                                                                                                                                              |
| Reasons why this would be considered a submission for a notification of a major release                                                                                                  | From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.                                                                                                                                                                                                                                                              |
| With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.                                                                                     | e. gas only) are to be submitted on the C-129 form.                                                                                                                                                                                                                                                                                                                                              |
| Initial Response                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                  |
| The responsible party must undertake the following actions immediately unless they could create a                                                                                        | safety hazard that would result in injury.                                                                                                                                                                                                                                                                                                                                                       |
| The source of the release has been stopped                                                                                                                                               | True                                                                                                                                                                                                                                                                                                                                                                                             |
| The impacted area has been secured to protect human health and the environment                                                                                                           | True                                                                                                                                                                                                                                                                                                                                                                                             |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices                                                                       | True                                                                                                                                                                                                                                                                                                                                                                                             |
| All free liquids and recoverable materials have been removed and managed appropriately                                                                                                   | True                                                                                                                                                                                                                                                                                                                                                                                             |
| If all the actions described above have not been undertaken, explain why                                                                                                                 | Not answered.                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                          | ilation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o<br>eted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of<br>evaluation in the follow-up C-141 submission.                                                                                                                |
| to report and/or file certain release notifications and perform corrective actions for rele<br>the OCD does not relieve the operator of liability should their operations have failed to | knowledge and understand that pursuant to OCD rules and regulations all operators are required tasses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or |
| I hereby agree and sign off to the above statement                                                                                                                                       | Name: Jason Touchet<br>Title: EHS Field Rep                                                                                                                                                                                                                                                                                                                                                      |

Email: jason.touchet@matadorresources.com

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

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**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

QUESTIONS, Page 3

Action 384550

**QUESTIONS** (continued)

| Operator:                  | OGRID:                                            |
|----------------------------|---------------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                            |
| One Lincoln Centre         | Action Number:                                    |
| Dallas, TX 75240           | 384550                                            |
|                            | Action Type:                                      |
|                            | [C-141] Deferral Request C-141 (C-141-v-Deferral) |

#### QUESTIONS

| Site Characterization                                                                                                         |                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Please answer all the questions in this group (only required when seeking remediation plan approva<br>release discovery date. | l and beyond). This information must be provided to the appropriate district office no later than 90 days after the |
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)    | Between 51 and 75 (ft.)                                                                                             |
| What method was used to determine the depth to ground water                                                                   | NM OSE iWaters Database Search                                                                                      |
| Did this release impact groundwater or surface water                                                                          | No                                                                                                                  |
| What is the minimum distance, between the closest lateral extents of the release ar                                           | nd the following surface areas:                                                                                     |
| A continuously flowing watercourse or any other significant watercourse                                                       | Between 500 and 1000 (ft.)                                                                                          |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)                                             | Greater than 5 (mi.)                                                                                                |
| An occupied permanent residence, school, hospital, institution, or church                                                     | Greater than 5 (mi.)                                                                                                |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes     | Between ½ and 1 (mi.)                                                                                               |
| Any other fresh water well or spring                                                                                          | Between ½ and 1 (mi.)                                                                                               |
| Incorporated municipal boundaries or a defined municipal fresh water well field                                               | Between ½ and 1 (mi.)                                                                                               |
| A wetland                                                                                                                     | Between 1 and 5 (mi.)                                                                                               |
| A subsurface mine                                                                                                             | Greater than 5 (mi.)                                                                                                |
| An (non-karst) unstable area                                                                                                  | Zero feet, overlying, or within area                                                                                |
| Categorize the risk of this well / site being in a karst geology                                                              | High                                                                                                                |
| A 100-year floodplain                                                                                                         | Between 1 and 5 (mi.)                                                                                               |
| Did the release impact areas not on an exploration, development, production, or storage site                                  | No                                                                                                                  |

| Remediation Plan                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                    |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Please answer all the questions ti | hat apply or are indicated. This information must be provided t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | o the appropriate district office no later than 90 days after the release discovery date.                          |
| Requesting a remediation           | plan approval with this submission                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Yes                                                                                                                |
| Attach a comprehensive report de   | monstrating the lateral and vertical extents of soil contamination                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.            |
| Have the lateral and vertical      | al extents of contamination been fully delineated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Yes                                                                                                                |
| Was this release entirely c        | ontained within a lined containment area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                                                                                 |
| Soil Contamination Sampling        | g: (Provide the highest observable value for each, in n                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | nilligrams per kilograms.)                                                                                         |
| Chloride                           | (EPA 300.0 or SM4500 CI B)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 11800                                                                                                              |
| TPH (GRO+DRO+MRO)                  | (EPA SW-846 Method 8015M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 26                                                                                                                 |
| GRO+DRO                            | (EPA SW-846 Method 8015M)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 26                                                                                                                 |
| BTEX                               | (EPA SW-846 Method 8021B or 8260B)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                                                                                  |
| Benzene                            | (EPA SW-846 Method 8021B or 8260B)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                                                                                                                  |
|                                    | NMAC unless the site characterization report includes complete the state of the site characterization report includes complete the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the stat | ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC |
| On what estimated date wi          | II the remediation commence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 01/29/2024                                                                                                         |
| On what date will (or did) to      | he final sampling or liner inspection occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 09/03/2024                                                                                                         |
| On what date will (or was)         | the remediation complete(d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 06/24/2024                                                                                                         |
| What is the estimated surfa        | ace area (in square feet) that will be reclaimed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 483                                                                                                                |
| What is the estimated volu         | me (in cubic yards) that will be reclaimed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 250                                                                                                                |
| What is the estimated surfa        | ace area (in square feet) that will be remediated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6647                                                                                                               |
| What is the estimated volu         | me (in cubic yards) that will be remediated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 680                                                                                                                |
| These estimated dates and measu    | rements are recognized to be the best guess or calculation at t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | the time of submission and may (be) change(d) over time as more remediation efforts are completed.                 |

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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**District I** 

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **District II** 

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III** 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV**1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 384550

QUESTIONS (continued)

| Operator:                  | OGRID:                                            |
|----------------------------|---------------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                            |
| One Lincoln Centre         | Action Number:                                    |
| Dallas, TX 75240           | 384550                                            |
|                            | Action Type:                                      |
|                            | [C-141] Deferral Request C-141 (C-141-v-Deferral) |

#### QUESTIONS

| Remediation Plan (continued)<br>Please answer all the questions that apply or are indicated. This information must be provided to the | appropriate district office no later than 90 days after the release discovery date. |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| This remediation will (or is expected to) utilize the following processes to remediate                                                |                                                                                     |
| (Select all answers below that apply.)                                                                                                |                                                                                     |
| (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)                                                        | Yes                                                                                 |
| Which OCD approved facility will be used for off-site disposal                                                                        | Not answered.                                                                       |
| OR which OCD approved well (API) will be used for off-site disposal                                                                   | Not answered.                                                                       |
| OR is the off-site disposal site, to be used, out-of-state                                                                            | Not answered.                                                                       |
| OR is the off-site disposal site, to be used, an NMED facility                                                                        | Yes                                                                                 |
| What is the name of the NMED facility                                                                                                 | R360 Hobbs                                                                          |
| (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)                                                                | Not answered.                                                                       |
| (In Situ) Soil Vapor Extraction                                                                                                       | Not answered.                                                                       |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)                                                     | Not answered.                                                                       |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)                                                                    | Not answered.                                                                       |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)                                                              | Not answered.                                                                       |
| Ground Water Abatement pursuant to 19.15.30 NMAC                                                                                      | Not answered.                                                                       |
| OTHER (Non-listed remedial process)                                                                                                   | Not answered.                                                                       |

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Email: jason.touchet@matadorresources.com

Date: 09/18/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

QUESTIONS, Page 5

Action 384550

**QUESTIONS** (continued)

| Operator: MATADOR PRODUCTION COMPANY                                                                                                                                                     | OGRID: 228937                                                                                                                                                                                                                                                                                                                                                                                 |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| One Lincoln Centre                                                                                                                                                                       | Action Number:                                                                                                                                                                                                                                                                                                                                                                                |  |
| Dallas, TX 75240                                                                                                                                                                         | 384550                                                                                                                                                                                                                                                                                                                                                                                        |  |
|                                                                                                                                                                                          | Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)                                                                                                                                                                                                                                                                                                                               |  |
| QUESTIONS                                                                                                                                                                                | ·                                                                                                                                                                                                                                                                                                                                                                                             |  |
| Deferral Requests Only                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Only answer the questions in this group if seeking a deferral upon approval this submission. Each of                                                                                     | of the following items must be confirmed as part of any request for deferral of remediation.                                                                                                                                                                                                                                                                                                  |  |
| Requesting a deferral of the remediation closure due date with the approval of this submission                                                                                           | Yes                                                                                                                                                                                                                                                                                                                                                                                           |  |
| Have the lateral and vertical extents of contamination been fully delineated                                                                                                             | Yes                                                                                                                                                                                                                                                                                                                                                                                           |  |
| Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction                                   | Yes                                                                                                                                                                                                                                                                                                                                                                                           |  |
| Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction                                                              | Pipelines, Transfer pumps, Concrete pad, and Catwalk stairs                                                                                                                                                                                                                                                                                                                                   |  |
| What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted                                                                       | 483                                                                                                                                                                                                                                                                                                                                                                                           |  |
| What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted                                                                             | 250                                                                                                                                                                                                                                                                                                                                                                                           |  |
|                                                                                                                                                                                          | liately under or around production equipment such as production tanks, wellheads and pipelines where<br>n may be deferred with division written approval until the equipment is removed during other operations, or when                                                                                                                                                                      |  |
| Enter the facility ID (f#) on which this deferral should be granted                                                                                                                      | Charlie Sweeney Fed Facility Tank battery [fAPP2202571816]                                                                                                                                                                                                                                                                                                                                    |  |
| Enter the well API (30-) on which this deferral should be granted                                                                                                                        | 30-015-44025 CHARLIE SWEENEY FEDERAL COM #208H                                                                                                                                                                                                                                                                                                                                                |  |
| Contamination does not cause an imminent risk to human health, the environment, or groundwater                                                                                           | True                                                                                                                                                                                                                                                                                                                                                                                          |  |
| Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed e which includes the anticipated timelines for beginning and completing the remediation. | fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC                                                                                                                                                                                                                                                                                |  |
| to report and/or file certain release notifications and perform corrective actions for rele<br>the OCD does not relieve the operator of liability should their operations have failed to | knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or |  |
| I hereby agree and sign off to the above statement                                                                                                                                       | Name: Jason Touchet<br>Title: EHS Field Rep<br>Email: jason.touchet@matadorresources.com<br>Date: 09/18/2024                                                                                                                                                                                                                                                                                  |  |

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**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

QUESTIONS, Page 6

Action 384550

**QUESTIONS** (continued)

| Operator:                  | OGRID:                                            |
|----------------------------|---------------------------------------------------|
| MATADOR PRODUCTION COMPANY | 228937                                            |
| One Lincoln Centre         | Action Number:                                    |
| Dallas, TX 75240           | 384550                                            |
|                            | Action Type:                                      |
|                            | [C-141] Deferral Request C-141 (C-141-v-Deferral) |

#### QUESTIONS

| Sampling Event Information                                                                      |            |  |
|-------------------------------------------------------------------------------------------------|------------|--|
| Last sampling notification (C-141N) recorded                                                    | 378968     |  |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 09/04/2024 |  |
| What was the (estimated) number of samples that were to be gathered                             | 5          |  |
| What was the sampling surface area in square feet                                               | 6647       |  |

| Remediation Closure Request                                                                                                                |    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------|----|--|
| Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed. |    |  |
| Requesting a remediation closure approval with this submission                                                                             | No |  |

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**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 384550

#### **CONDITIONS**

| Operator:                  | OGRID:                                            |  |
|----------------------------|---------------------------------------------------|--|
| MATADOR PRODUCTION COMPANY | 228937                                            |  |
| One Lincoln Centre         | Action Number:                                    |  |
| Dallas, TX 75240           | 384550                                            |  |
|                            | Action Type:                                      |  |
|                            | [C-141] Deferral Request C-141 (C-141-v-Deferral) |  |

#### CONDITIONS

| Created B | $^{\prime}$                                                                                                                                                                                                                                                            | Condition<br>Date |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| scwells   | Deferral approved. Deferral of FS03, FS04, and SW07 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time. | 10/1/2024         |