

Venegas, Victoria, EMNRD

From: Melodie Sanjari <melodie.sanjari@soudermiller.com>
Sent: Thursday, February 7, 2019 11:44 AM
To: Hamlet, Robert, EMNRD; Venegas, Victoria, EMNRD
Cc: Austin Weyant; John Hurt
Subject: [EXT] Remediation Closure Report for the Janie Conner #221H 2RP-3739
Attachments: Janie Conner #221H Remediation Closure Report.pdf

Good Morning All,

Please find the attached Remediation Closure Report for the release associated with the Janie Conner #221H (2RP-3739).

If there are any questions or concerns please let me know.

Melodie Sanjari
Staff Scientist

**Souder, Miller & Associates**

Engineering ♦ Environmental ♦ Surveying
201 S Halagueno Street
Carlsbad, NM 88220
www.soudermiller.com
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(505) 299-0942 Ext. 2204



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Souder, Miller & Associates ♦ 201 S. Halagueno St. ♦ Carlsbad, NM 88220
(575) 689-8801

February 7, 2019

#5E26816-BG4

NMOCD District 2
Mr. Robert Hamlet
811 S. 1st Street
Artesia, NM 88210

SUBJECT: Site Assessment/Characterization and Closure Sampling Plan for the Janie Conner #221H Release (2RP-3739), Eddy County, New Mexico

Dear Mr. Robert Hamlet:

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 #221H site. 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 13 24S 28E RB #221H | Company | Matador Resources |
| API Number | 30-15-43756 | Location | 32.2238661 ° -104.050043 ° |
| Incident Number | 2RP-3739 | | |
| Estimated Date of Release | 6/12/2016 | Date Reported to NMOCD | 6/12/2016 |
| Land Owner | Private Land | Reported To | OCD |
| Source of Release | Equipment Failure | | |
| Released Volume | 15 bbls | Released Material | Oil Based Mud |
| Recovered Volume | 15 bbls | Net Release | 0 bbls |
| NMOCD Closure Criteria | <50 feet to groundwater | | |
| SMA Response Dates | 1/31/18, 9/4/18 & 9/18/18 | | |

1.0 Background

On June 12, 2016, a release was discovered at the Janie Conner #221H site caused by equipment failure. Initial response activities were conducted by Matador's contractor and included source elimination by crimping the hose that failed, and site stabilization activities, which recovered the free fluids. Figures 1 and 2 illustrate the vicinity and site location and Figure 3 illustrates the release location. The initial and final C-141 forms are included in Appendix A.

2.0 Site Information and Closure Criteria

The Janie Conner #221H is located approximately 1.2 miles east of Malaga, New Mexico on privately-owned land at an elevation of approximately 2982 feet above mean sea level (amsl).

As summarized in Table 2 and illustrated in Figure 1, depth to groundwater in the area is estimated to be 35-40 feet below grade surface (bgs). There are 4 known water sources within ½-mile of the location, according to the New Mexico Office of the State Engineer (NMOSE) and USGS Groundwater water levels (https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?search_criteria=county_cd&submitted_form=introduction; accessed 10/16/2018). USGS and OSE well within the area were used to determine the depth to ground water of 35-40 feet bgs. These well ending in 25801(USGS) and C-0903 and C0464 (OSE). The nearest surface water is Pecos River located approximately 0.66 miles to the east.

This data indicates that it does lie within a sensitive area as described in 19.15.29.12.C(4) NMAC due to depth to groundwater in the area.

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 background levels for chloride from the submitted report to OCD on 11/1/18 titled "Site Assessment/Characterization and Closure Sampling Plan for the Janie Conner #221H Release (2RP-.3739), Eddy County, New Mexico".

Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix B.

3.0 Release Characterization Activities and Findings

On January 31, 2018, SMA personnel arrived on site in response to the release associated with the Janie Conner #221H. SMA performed site delineation activities by collecting surface soil samples around the release site and throughout the visibly stained area (L1-L4). These four samples were sent for laboratory analysis for 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).

4.0 Soil Remediation Summary

On September 4, 2018, SMA returned on the site to further delineate the release and guide the excavation of contaminated material. A total of 16 sample locations (BH1-BH3, SW1-SW7 and BG1 & BG2) were investigated using excavated test pits, to depths up to 6 feet bgs. A minimum of two samples were collected at each sampling location aside from the sidewall sample locations (SW1-SW7). A total of 11 samples were collected for laboratory analysis for total chloride using EPA Method 300.0; and 3 samples

Janie Conner #221H Remediation Closure Report (2RP-3739)
February 7, 2019

Page 3 of 4

sent for 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 all samples are depicted on Figure 3.

An area approximately 130 feet by 110 feet by 2 to 4 feet deep had been impacted. The walls and base were excavated until the closure criteria would be met using background data. The area around BH1 and BH2 was excavated to a depth of 2 feet bgs and BH3 was excavated to a depth of 4 feet bgs.

Figure 3 shows the extent of the excavation and sample locations. All field screening and laboratory results are summarized in Table 3. Laboratory reports are included in Appendix D.

SMA met with NMOCD concerning the chloride remediation standards on September 12, 2018. It was requested that an additional background location be added outside of the pad to reiterate the natural chloride concentration of the soil in which the release took place. Background sample location BG6 was established on September 18, 2018 and was investigated to a depth of 6 feet bgs. Lab analysis confirmed that BG6 exhibited chloride levels as high as 3086 mg/kg (Table 3). Baseline samples were also collected on July 22, 2016 in the adjacent pasture (Janie Conner Production site 300 feet south of the release location: P1-P3). Sample Locations P1-P3 can be seen on Figure 3B. Lab analysis from the requested background sample (BG6) and baselines collected before construction or production in the adjacent field show levels upwards of 1800 mg/kg.

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.

5.0 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 Austin Weyant at 575-689-8801 or Shawna Chubbuck at 505-325-7535.

Submitted by:
SOUDER, MILLER & ASSOCIATES

Reviewed by:



Lucas Middleton
Staff Scientist



Shawna Chubbuck
Senior Scientist

Janie Conner #221H Remediation Closure Report (2RP-3739)
February 7, 2019

Page 4 of 4

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map

Figure 2: Surface Water Radius Map

Figure 3: Site and Sample Location Map

Figure 3b: Baseline Sample Location Map for Janie Conner Production

Tables:

Table 2: NMOCD Closure Criteria Justification

Table 3: Summary of Sample Results

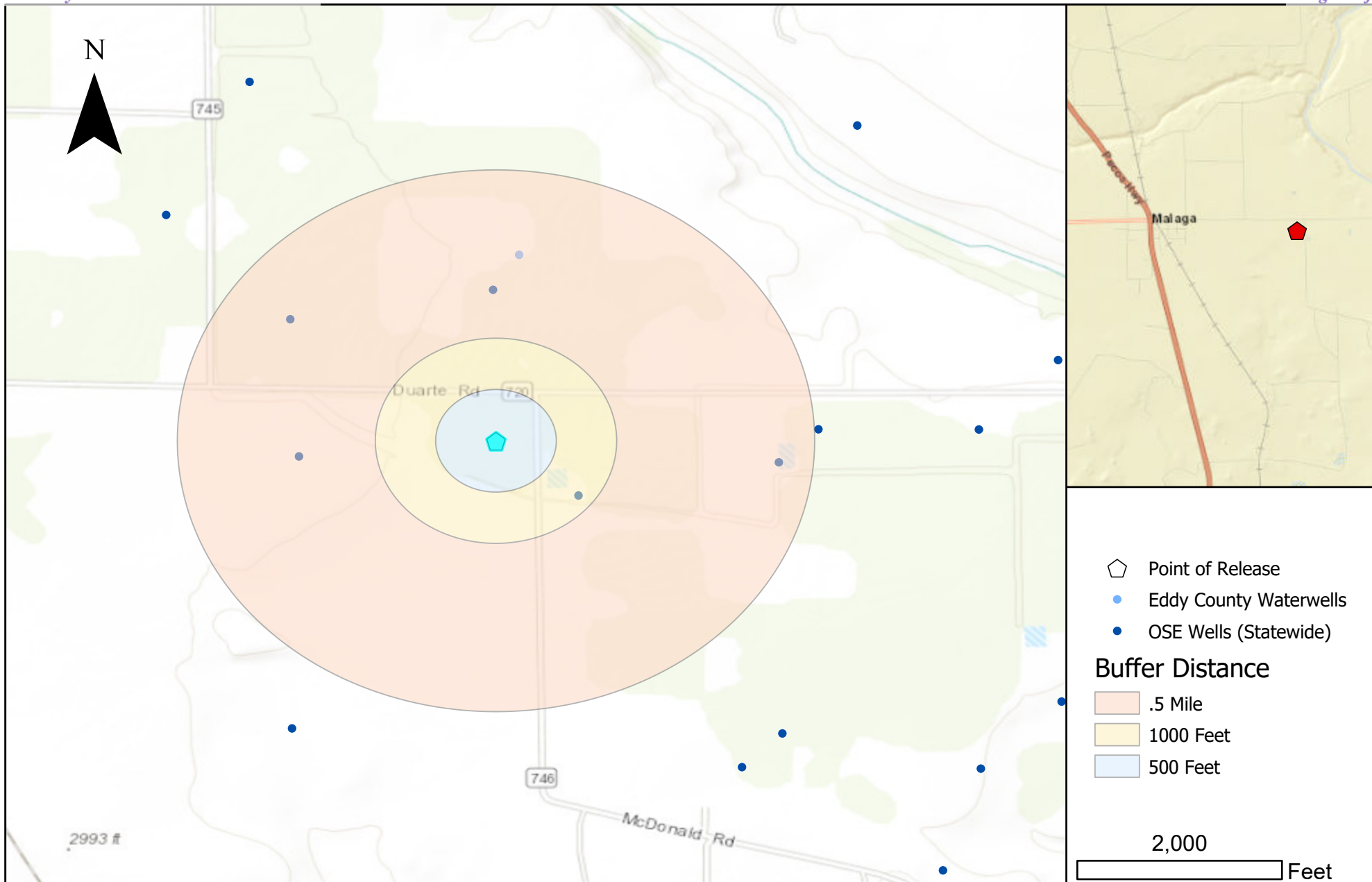
Appendices:

Appendix A: Initial & Final C141

Appendix B: NMOSE Wells Report

Appendix C: Laboratory Analytical Reports

FIGURES



Regional Vicinity & Wellhead Protection Map
 Janie Conner 13 24S 28E RB #221H
 Eddy County, New Mexico

Figure 1

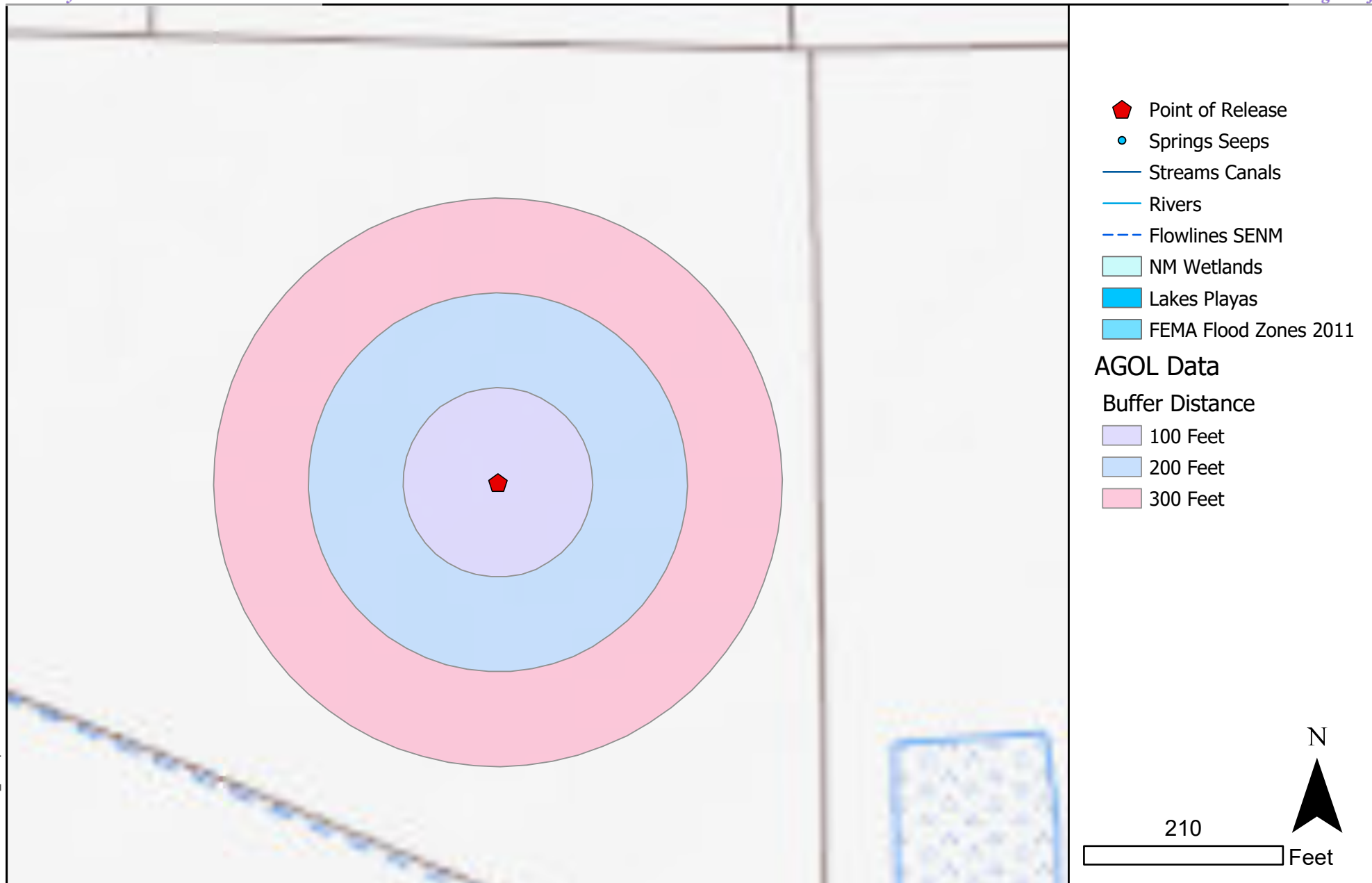
| Revisions | | |
|-----------|-------------|--------------|
| By: _____ | Date: _____ | Descr: _____ |
| By: _____ | Date: _____ | Descr: _____ |

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| | |
|----------|----------|
| Drawn | LCM |
| Date | 1/2/2019 |
| Checked | _____ |
| Approved | _____ |



201 South Halaguena Street
 Carlsbad, New Mexico 88221
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Surface Water Protection Map
 Janie Conner 13 24S 28E RB #221H
 Eddy County, New Mexico

Figure 2

Revisions

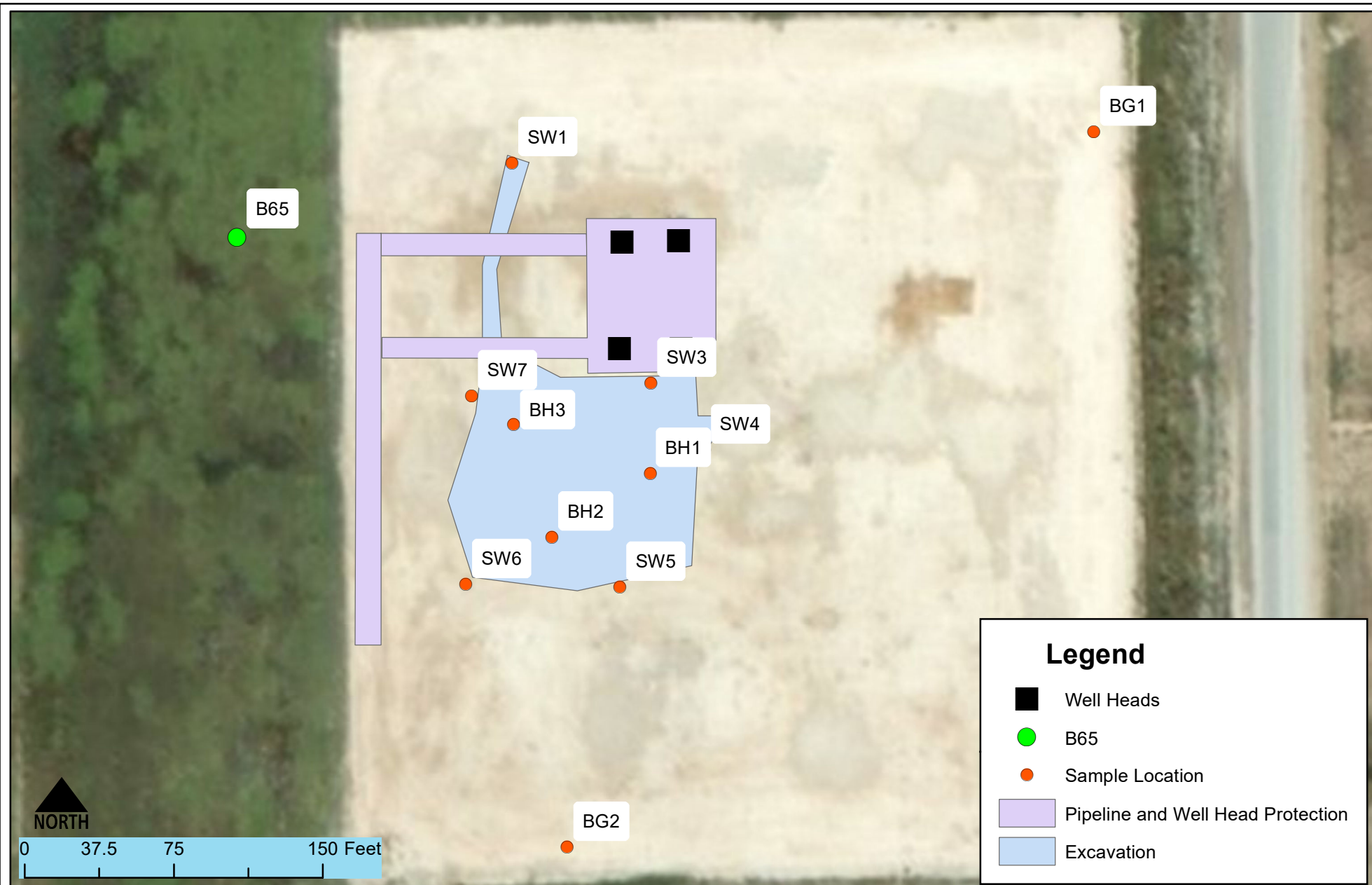
| By: | Date: | Descr: |
|-----------|-------------|--------------|
| By: _____ | Date: _____ | Descr: _____ |
| By: _____ | Date: _____ | Descr: _____ |

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Drawn _____
 Date _____
 Checked _____
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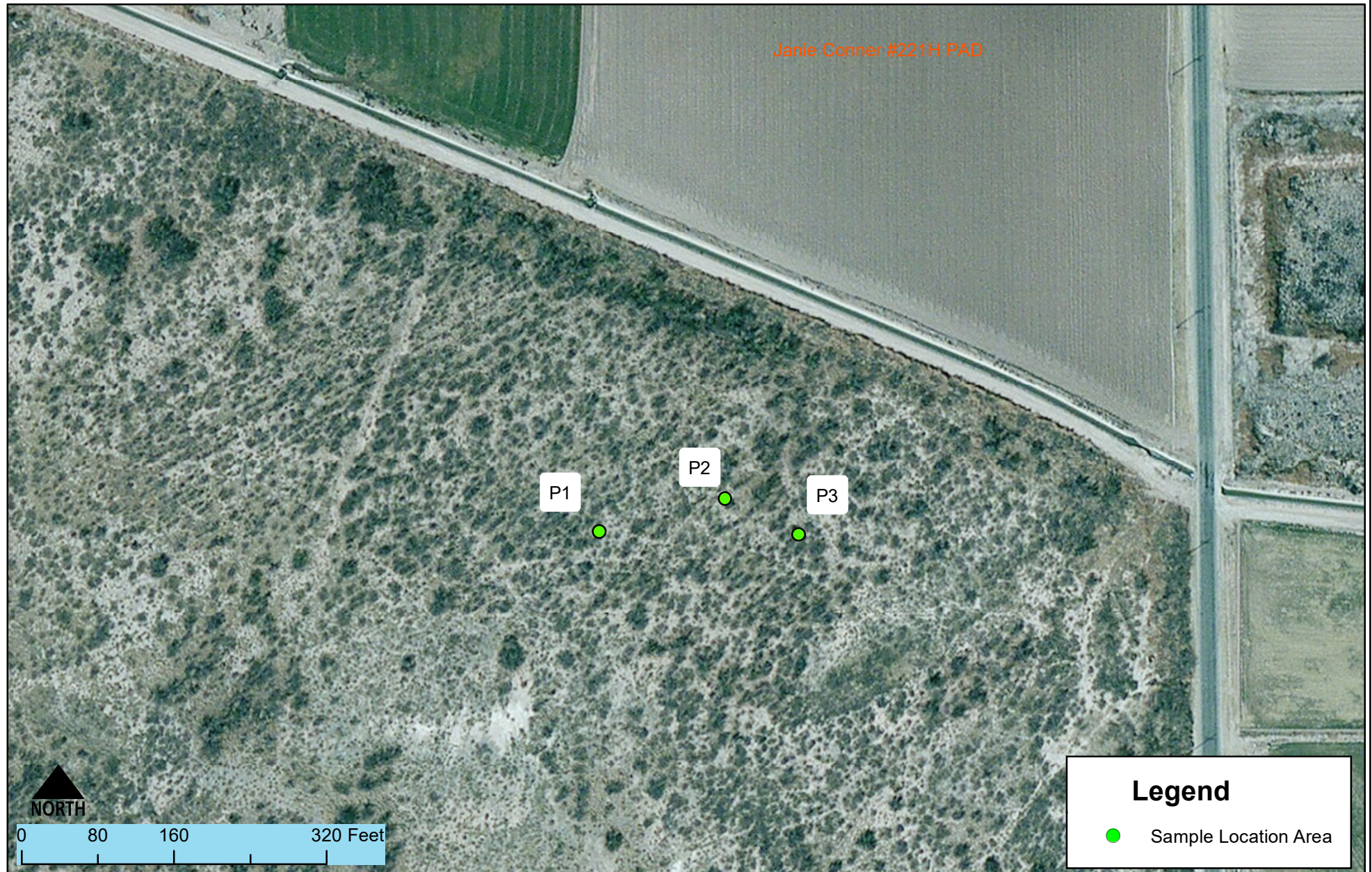
Detailed Site and Sample Map
 Janie Conner #221H - Matador Resources
 S: 13 T24S R28E, Eddy County New Mexico

Figure 3

| | | | | | | |
|--|-----------|-------------|-----------|--------------|----------|-----------------|
| Date Saved: 1/4/2019 | By: _____ | Date: _____ | Revisions | Descr: _____ | Drawn | Lucas Middleton |
| | By: _____ | Date: _____ | | Descr: _____ | Checked | _____ |
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Detailed Site and Sample Map
 Janie Conner Production - Matador Resources
 Company Loving, New Mexico

Figure 3B

| | | | | |
|--|-----------|-------------|-----------|--------------|
| Date Saved: 8/23/2016 | By: _____ | Date: _____ | Revisions | Descr: _____ |
| | By: _____ | Date: _____ | | Descr: _____ |
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| | |
|----------|-----------------|
| Drawn | Lucas Middleton |
| Checked | _____ |
| Approved | _____ |



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TABLES

| Site Information (19.15.29.11.A(2, 3, and 4) NMAC) | | Source/Notes |
|---|------|-----------------|
| Depth to Groundwater (feet bgs) | ~35 | OSE, USGS |
| Horizontal Distance From All Water Sources Within 1/2 Mile (ft) | 870 | OSE |
| Horizontal Distance to Nearest Significant Watercourse (miles) | 0.66 | Topographic Map |

| Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC) | | | | | | |
|---|-----------|--|------|--------------|------|---------|
| Depth to Groundwater | | Closure Criteria (units in mg/kg) | | | | |
| | | Chloride *numerical limit or background, whichever is greater | TPH | GRO + DRO | BTEX | Benzene |
| < 50' BGS | X | 600 | 100 | | 50 | 10 |
| 51' to 100' | | 10000 | 2500 | 1000 | 50 | 10 |
| >100' | | 20000 | 2500 | 1000 | 50 | 10 |
| Surface Water | yes or no | if yes, then | | | | |
| <300' from continuously flowing watercourse or other significant watercourse? | No | 600 | 100 | | 50 | 10 |
| <200' from lakebed, sinkhole or playa lake? | No | | | | | |
| Water Well or Water Source | | | | | | |
| <500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes? | No | | | | | |
| <1000' from fresh water well or spring? | Yes | | | | | |
| Human and Other Areas | | | | | | |
| <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? | Yes | | | | | |
| within a 100-year floodplain? | No | | | | | |

Table 3:

Summary of Sample Results

Matador Resources
Janie Conner #221 2RP-3739

| Sample ID | Sample Date | Depth (feet bgs) | Proposed Action/ Action Taken | BTEX mg/Kg | Benzene mg/Kg | GRO mg/Kg | DRO mg/Kg | MRO mg/Kg | Total TPH mg/Kg | Cl- mg/Kg |
|------------------------|-------------|------------------|-------------------------------|------------|---------------|-----------|-----------|-----------|-----------------|-----------|
| NMOCD Closure Criteria | | | | 50 | 10 | 1000 | | | 100 | 600 |
| BH1 | 9/4/2018 | 2 | Sample | <0.093 | <0.023 | <4.7 | <9.4 | <47 | <47 | 310 |
| | 9/4/2018 | 3 | Sample | -- | -- | -- | -- | -- | -- | 100 |
| BH2 | 9/4/2018 | 2 | Sample | -- | -- | -- | -- | -- | -- | 28 |
| | 9/4/2018 | 3 | Sample | <0.093 | <0.023 | <4.6 | <9.2 | <46 | <46 | 12 |
| BH3 | 9/4/2018 | 4 | Sample | <0.099 | <0.025 | <5.0 | <9.5 | <48 | <48 | 810 |
| SW1 | 9/4/2018 | 1 | Sample | -- | -- | -- | -- | -- | -- | 69 |
| SW3 | 9/4/2018 | 1 | Sample | -- | -- | -- | -- | -- | -- | 210 |
| SW4 | 9/4/2018 | 1 | Sample | -- | -- | -- | -- | -- | -- | 710 |
| SW5 | 9/4/2018 | 1 | Sample | -- | -- | -- | -- | -- | -- | 230 |
| SW6 | 9/4/2018 | 1 | Sample | -- | -- | -- | -- | -- | -- | 420 |
| SW7 | 9/4/2018 | 2 | Sample | -- | -- | -- | -- | -- | -- | 320 |
| BG5 | 9/18/2018 | 1 | Sample | -- | -- | -- | -- | -- | -- | 1100 |
| | 9/18/2018 | 2 | Sample | -- | -- | -- | -- | -- | -- | 1300 |
| | 9/18/2018 | 3 | Sample | -- | -- | -- | -- | -- | -- | 550 |
| | 9/18/2018 | 4 | Sample | -- | -- | -- | -- | -- | -- | 840 |
| | 9/18/2018 | 5 | Sample | -- | -- | -- | -- | -- | -- | 79 |

--" = Not Analyzed
* = per Reclamation Standard (19.15.29.13.D(1) NMAC)

APPENDIX A C141 FORMS

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

ARTESIA DISTRICT

JUN 13 2016

Form C-141
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.
RECEIVED

Release Notification and Corrective Action

NAB16161636453

OPERATOR

x ☐ Initial Report ☐ Final Report

| | | |
|--|--------|----------------------------|
| Name of Company Matador Resources | 228437 | Contact Catherine Green |
| Address 500 N Main St Suite 1 Roswell NM 88201 | | Telephone No. 575-623-6601 |
| Facility Name Janie Conner 13 24S 28E RB #221H | | Facility Type Oil well |

| | | |
|-----------------------|---------------|----------------------|
| Surface Owner Private | Mineral Owner | API No. 30-015-43756 |
|-----------------------|---------------|----------------------|

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| A | 14 | 24S | 28E | 379 | N | 330 | E | Eddy |

Latitude 32.2238661 Longitude -104.0500431

NATURE OF RELEASE

| | | |
|---|---|--|
| Type of Release Oil Based Mud | Volume of Release 13 bbls | Volume Recovered 13bbls |
| Source of Release Frac tank hose | Date and Hour of Occurrence 6/12/16 12:15am | Date and Hour of Discovery 6/12/16 12:15am |
| Was Immediate Notice Given? Required x <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not | If YES, To Whom? Casey Snow | |
| By Whom? Martin Boquet | Date and Hour 6/12/16 3pm. | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes x <input type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Hose separated at connection. Procedure was halted. Hose was crimped.

Describe Area Affected and Cleanup Action Taken.*

Material was vacuumed up on location.

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

Printed Name: Catherine Green

Title: Regulatory Analyst

E-mail Address: cgreen@matadorresources.com

Date: June 13, 2016 Phone: 575-623-6601

Signed By: *[Signature]*
Approved by Environmental Specialist

Approval Date: 6/14/16

Expiration Date: N/A

Conditions of Approval:
Remediation per O.C.D. Rules & Guidelines ☐

SUBMIT REMEDIATION PROPOSAL NO

LATER THAN: 7/14/16 2RP-3139

* Attach Additional Sheets If Necessary

Bratcher, Mike, EMNRD

From: Catherine Green <CGreen@matadorresources.com>
Sent: Monday, June 13, 2016 9:27 AM
To: Bratcher, Mike, EMNRD
Subject: Janie Conner 221H spill June 12 2016.doc
Attachments: Janie Conner 221H spill June 12 2016.doc

Mr. Bratcher,

Please find attached a C-141.

Kind Regards,

Catherine Green

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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-3739 |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| | |
|--|--|
| Responsible Party Matador Resources Company | OGRID 228937 |
| Contact Name John Hurt | Contact Telephone 972-371-5200 |
| Contact email JHurt@matadorresources.com | Incident # <i>(assigned by OCD)</i> 2RP-3739 |
| Contact mailing address 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240 | |

Location of Release Source

Latitude 32.2238661 _____ Longitude -104.050043 _____
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|--|-----------------------------------|
| Site Name Janie Conner 13 24S 28E RB #221H | Site Type Oil well |
| Date Release Discovered 6/12/16 | API# (if applicable) 30-015-43756 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| A | 14 | 24S | 28E | Eddy |

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: MCDONALD, HENRY_____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| | | |
|---|--|--|
| <input type="checkbox"/> Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Produced Water | Volume Released (bbls) | Volume Recovered (bbls) |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input checked="" type="checkbox"/> Other (describe) Oil Based Mud | Volume/Weight Released (provide units) 13 bbls | Volume/Weight Recovered (provide units) 13 bbls |

Cause of Release:

Hose separated at connection. Procedure was halted. Hose was crimped.

Form C-141

State of New Mexico
Oil Conservation Division


Page 2

| | |
|----------------|----------|
| Incident ID | |
| District RP | 2RP-3739 |
| Facility ID | |
| Application ID | |

| | |
|--|---|
| <p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> | <p>If YES, for what reason(s) does the responsible party consider this a major release?</p> |
| <p>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?</p> | |

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

| | |
|--|--------------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. | |
| If all the actions described above have <u>not</u> been undertaken, explain why: | |
| | |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. | |
| 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. | |
| Printed Name: <u>John Hurt</u> | Title: <u>RES Specialist</u> |
| Signature: <u></u> | Date: <u>1/4/19</u> |
| email: <u>JHurt@matadorresources.com</u> | Telephone: <u>972-371-5200</u> |
| <u>OCD Only</u> | |
| Received by: _____ | Date: _____ |

Form C-141

State of New Mexico
Oil Conservation Division

Page 3

| | |
|----------------|----------|
| Incident ID | |
| District RP | 2RP-3739 |
| 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? | <u>35</u> (ft bgs) |
| Did this release impact groundwater or surface water? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production, or storage site? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water 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.

Form C-141

State of New Mexico
Oil Conservation Division

Page 4

| | |
|----------------|----------|
| Incident ID | |
| District RP | 2RP-3739 |
| Facility ID | |
| Application ID | |

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.

Printed Name: John Hurt Title: RES SpecialistSignature:  Date: 1/4/19email: JHurt@matadorresources.com Telephone: 972-371-5200**OCD Only**

Received by: _____ Date: _____

Form C-141

State of New Mexico

Page 6

Oil Conservation Division

| | |
|----------------|----------|
| Incident ID | |
| District RP | 2RP-3739 |
| 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 items must be included in the closure report.

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: John Hurt Title: RES Specialist
Signature:  Date: 1/4/19
email: JHurt@matadorresources.com Telephone: 972-371-5200

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

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 Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | Depth Well | Depth Water | Water Column |
|-------------------------|--------------|-------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|------------|-------------|--------------|
| C 00738 | CUB | ED | | 3 | 1 | 1 | 13 | 24S | 28E | 589673 | 3565472* | 237 | 125 | 12 | 113 |
| C 00574 | CUB | ED | | 2 | 4 | 4 | 11 | 24S | 28E | 589452 | 3566081* | 439 | 200 | 20 | 180 |
| C 00903 | C | 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**

Maximum Depth: **30 feet**

Record Count: 4

UTM NAD83 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.

10/16/18 9:13 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

APPENDIX C

LABORATORY ANALYTICAL REPORTS

Analytical Report

Lab Order: 1809C05

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Project: Janie Connol B65

Lab Order: 1809C05

Lab ID: 1809C05-001 **Collection Date:** 9/18/2018 11:00:00 AM
Client Sample ID: B65-1 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|--------|-----|------|-------|----|----------------------|
| EPA METHOD 300.0: ANIONS Analyst: smb | | | | | | |
| Chloride | 1100 | 30 | | mg/Kg | 20 | 9/26/2018 5:13:32 PM |

Lab ID: 1809C05-002 **Collection Date:** 9/18/2018 11:10:00 AM
Client Sample ID: B65-2 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|--------|-----|------|-------|----|----------------------|
| EPA METHOD 300.0: ANIONS Analyst: smb | | | | | | |
| Chloride | 1200 | 30 | E | mg/Kg | 20 | 9/26/2018 5:50:45 PM |

Lab ID: 1809C05-003 **Collection Date:** 9/18/2018 11:20:00 AM
Client Sample ID: B65-3 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|--------|-----|------|-------|----|----------------------|
| EPA METHOD 300.0: ANIONS Analyst: smb | | | | | | |
| Chloride | 550 | 30 | | mg/Kg | 20 | 9/26/2018 6:03:10 PM |

Lab ID: 1809C05-004 **Collection Date:** 9/18/2018 11:30:00 AM
Client Sample ID: B65-4 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|--------|-----|------|-------|----|----------------------|
| EPA METHOD 300.0: ANIONS Analyst: smb | | | | | | |
| Chloride | 840 | 30 | | mg/Kg | 20 | 9/26/2018 6:15:34 PM |

Lab ID: 1809C05-005 **Collection Date:** 9/18/2018 11:40:00 AM
Client Sample ID: B65-5 **Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|--------|-----|------|-------|----|----------------------|
| EPA METHOD 300.0: ANIONS Analyst: smb | | | | | | |
| Chloride | 79 | 30 | | mg/Kg | 20 | 9/26/2018 6:27:59 PM |

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 |
|---|--------|-----|------|-------|----|----------------------|
| EPA METHOD 300.0: ANIONS Analyst: smb | | | | | | |
| Chloride | 110 | 30 | | mg/Kg | 20 | 9/26/2018 6:40:24 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | |
|--------------------|--|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| | D Sample Diluted Due to Matrix | E Value above quantitation range |
| | H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| | ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| | PQL Practical Quantitative Limit | RL Reporting Detection Limit |

Page 1 of 0

Analytical Report

Lab Order: 1809C05

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Project: Janie Connol B65

Lab Order: 1809C05

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|-------------|-----|--|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative 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

December 06, 2018

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Jonie Connor

OrderNo.: 1811E80

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 11 sample(s) on 11/30/2018 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 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1811E80

Date Reported: 12/6/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: BH1-2

Project: Jonie Connor

Collection Date: 9/4/2018 9:00:00 AM

Lab ID: 1811E80-001

Matrix: SOIL

Received Date: 11/30/2018 8:45:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 310 | 30 | H | mg/Kg | 20 | 12/5/2018 3:30:04 AM | 41883 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: Irm |
| Diesel Range Organics (DRO) | ND | 9.4 | H | mg/Kg | 1 | 12/5/2018 3:57:16 AM | 41858 |
| Motor Oil Range Organics (MRO) | ND | 47 | H | mg/Kg | 1 | 12/5/2018 3:57:16 AM | 41858 |
| Surr: DNOP | 96.1 | 50.6-138 | H | %Rec | 1 | 12/5/2018 3:57:16 AM | 41858 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | H | mg/Kg | 1 | 12/3/2018 9:56:44 PM | 41830 |
| Surr: BFB | 89.8 | 73.8-119 | H | %Rec | 1 | 12/3/2018 9:56:44 PM | 41830 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.023 | H | mg/Kg | 1 | 12/3/2018 9:56:44 PM | 41830 |
| Toluene | ND | 0.047 | H | mg/Kg | 1 | 12/3/2018 9:56:44 PM | 41830 |
| Ethylbenzene | ND | 0.047 | H | mg/Kg | 1 | 12/3/2018 9:56:44 PM | 41830 |
| Xylenes, Total | ND | 0.093 | H | mg/Kg | 1 | 12/3/2018 9:56:44 PM | 41830 |
| Surr: 4-Bromofluorobenzene | 95.4 | 80-120 | H | %Rec | 1 | 12/3/2018 9:56:44 PM | 41830 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Page 1 of 15

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1811E80

Date Reported: 12/6/2018

CLIENT: Souder, Miller & Associates

Project: Jonie Connor

Lab ID: 1811E80-002

Client Sample ID: BH1-3

Collection Date: 9/4/2018 9:15:00 AM

Received Date: 11/30/2018 8:45:00 AM

Matrix: SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------|--------|-----|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 100 | 30 | H | mg/Kg | 20 | 12/5/2018 3:42:29 AM | 41883 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|-------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1811E80

Date Reported: 12/6/2018

CLIENT: Souder, Miller & Associates

Project: Jonie Connor

Lab ID: 1811E80-003

Client Sample ID: BH2-2

Collection Date: 9/4/2018 10:30:00 AM

Received Date: 11/30/2018 8:45:00 AM

Matrix: SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------|--------|-----|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 280 | 30 | H | mg/Kg | 20 | 12/5/2018 1:12:45 PM | 41911 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|-------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Analytical Report

Lab Order 1811E80

Date Reported: 12/6/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: BH2-3

Project: Jonie Connor

Collection Date: 9/4/2018 10:40:00 AM

Lab ID: 1811E80-004

Matrix: SOIL

Received Date: 11/30/2018 8:45:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 120 | 30 | H | mg/Kg | 20 | 12/5/2018 1:49:59 PM | 41911 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: Irm |
| Diesel Range Organics (DRO) | ND | 9.2 | H | mg/Kg | 1 | 12/5/2018 4:21:22 AM | 41858 |
| Motor Oil Range Organics (MRO) | ND | 46 | H | mg/Kg | 1 | 12/5/2018 4:21:22 AM | 41858 |
| Surr: DNOP | 98.6 | 50.6-138 | H | %Rec | 1 | 12/5/2018 4:21:22 AM | 41858 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.6 | H | mg/Kg | 1 | 12/3/2018 10:20:10 PM | 41830 |
| Surr: BFB | 89.8 | 73.8-119 | H | %Rec | 1 | 12/3/2018 10:20:10 PM | 41830 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.023 | H | mg/Kg | 1 | 12/3/2018 10:20:10 PM | 41830 |
| Toluene | ND | 0.046 | H | mg/Kg | 1 | 12/3/2018 10:20:10 PM | 41830 |
| Ethylbenzene | ND | 0.046 | H | mg/Kg | 1 | 12/3/2018 10:20:10 PM | 41830 |
| Xylenes, Total | ND | 0.093 | H | mg/Kg | 1 | 12/3/2018 10:20:10 PM | 41830 |
| Surr: 4-Bromofluorobenzene | 95.7 | 80-120 | H | %Rec | 1 | 12/3/2018 10:20:10 PM | 41830 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Page 4 of 15

Analytical Report

Lab Order 1811E80

Date Reported: 12/6/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: BH3-4

Project: Jonie Connor

Collection Date: 9/4/2018 10:50:00 AM

Lab ID: 1811E80-005

Matrix: SOIL

Received Date: 11/30/2018 8:45:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 810 | 30 | H | mg/Kg | 20 | 12/5/2018 2:27:12 PM | 41911 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: Irm |
| Diesel Range Organics (DRO) | ND | 9.5 | H | mg/Kg | 1 | 12/5/2018 4:45:23 AM | 41858 |
| Motor Oil Range Organics (MRO) | ND | 48 | H | mg/Kg | 1 | 12/5/2018 4:45:23 AM | 41858 |
| Surr: DNOP | 98.5 | 50.6-138 | H | %Rec | 1 | 12/5/2018 4:45:23 AM | 41858 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | H | mg/Kg | 1 | 12/3/2018 10:43:33 PM | 41830 |
| Surr: BFB | 89.2 | 73.8-119 | H | %Rec | 1 | 12/3/2018 10:43:33 PM | 41830 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | H | mg/Kg | 1 | 12/3/2018 10:43:33 PM | 41830 |
| Toluene | ND | 0.050 | H | mg/Kg | 1 | 12/3/2018 10:43:33 PM | 41830 |
| Ethylbenzene | ND | 0.050 | H | mg/Kg | 1 | 12/3/2018 10:43:33 PM | 41830 |
| Xylenes, Total | ND | 0.099 | H | mg/Kg | 1 | 12/3/2018 10:43:33 PM | 41830 |
| Surr: 4-Bromofluorobenzene | 94.9 | 80-120 | H | %Rec | 1 | 12/3/2018 10:43:33 PM | 41830 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Page 5 of 15

Analytical Report

Lab Order 1811E80

Date Reported: 12/6/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: SW1

Project: Jonie Connor

Collection Date: 9/4/2018 11:00:00 AM

Lab ID: 1811E80-006

Matrix: SOIL

Received Date: 11/30/2018 8:45:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------|--------|-----|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 69 | 30 | H | mg/Kg | 20 | 12/5/2018 2:39:37 PM | 41911 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|-------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1811E80
Date Reported: 12/6/2018

CLIENT: Souder, Miller & Associates
Project: Jonie Connor
Lab ID: 1811E80-007

Client Sample ID: SW3
Collection Date: 9/4/2018 11:05:00 AM
Received Date: 11/30/2018 8:45:00 AM

Matrix: SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------|--------|-----|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 210 | 30 | H | mg/Kg | 20 | 12/5/2018 2:52:01 PM | 41911 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|-------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Analytical Report
Lab Order **1811E80**
Date Reported: **12/6/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates
Project: Jonie Connor
Lab ID: 1811E80-008

Matrix: SOIL

Client Sample ID: SW4
Collection Date: 9/4/2018 11:15:00 AM
Received Date: 11/30/2018 8:45:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------|--------|-----|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 710 | 30 | H | mg/Kg | 20 | 12/5/2018 3:04:25 PM | 41911 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1811E80

Date Reported: 12/6/2018

CLIENT: Souder, Miller & Associates

Project: Jonie Connor

Lab ID: 1811E80-009

Client Sample ID: SW5

Collection Date: 9/4/2018 11:20:00 AM

Received Date: 11/30/2018 8:45:00 AM

Matrix: SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------|--------|-----|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 230 | 30 | H | mg/Kg | 20 | 12/5/2018 3:16:50 PM | 41911 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|-------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1811E80

Date Reported: 12/6/2018

CLIENT: Souder, Miller & Associates

Project: Jonie Connor

Lab ID: 1811E80-010

Client Sample ID: SW6

Collection Date: 9/4/2018 11:25:00 AM

Received Date: 11/30/2018 8:45:00 AM

Matrix: SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------|--------|-----|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 420 | 30 | H | mg/Kg | 20 | 12/5/2018 3:29:14 PM | 41911 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|-------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1811E80
Date Reported: 12/6/2018

CLIENT: Souder, Miller & Associates

Client Sample ID: SW7

Project: Jonie Connor

Collection Date: 9/4/2018 11:30:00 AM

Lab ID: 1811E80-011

Matrix: SOIL

Received Date: 11/30/2018 8:45:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------|--------|-----|------|-------|----|----------------------|--------------|
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: MRA |
| Chloride | 320 | 30 | H | mg/Kg | 20 | 12/5/2018 3:41:39 PM | 41911 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|-------------|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1811E80

06-Dec-18

Client: Souder, Miller & Associates**Project:** Jonie Connor

| | | | | | | | | | | |
|------------|-----------|-----|--------------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-41883 | | SampType: mblk | | TestCode: EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | | Batch ID: 41883 | | RunNo: 56076 | | | | | |
| Prep Date: | 12/4/2018 | | Analysis Date: 12/4/2018 | | SeqNo: 1872787 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|-----------|-----|--------------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-41883 | | SampType: lcs | | TestCode: EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | | Batch ID: 41883 | | RunNo: 56076 | | | | | |
| Prep Date: | 12/4/2018 | | Analysis Date: 12/4/2018 | | SeqNo: 1872788 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 15 | 1.5 | 15.00 | 0 | 97.4 | 90 | 110 | | | |

| | | | | | | | | | | | |
|------------|-----------|-----|----------------|-------------|------|-----------|--------------------------|------|----------|-------|--|
| Sample ID | MB-41911 | | SampType: | mblk | | TestCode: | EPA Method 300.0: Anions | | | | |
| Client ID: | PBS | | Batch ID: | 41911 | | RunNo: | 56106 | | | | |
| Prep Date: | 12/5/2018 | | Analysis Date: | 12/5/2018 | | SeqNo: | 1874612 | | Units: | mg/Kg | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Chloride | ND | 1.5 | | | | | | | | | |

| | | | | | | | | | | | |
|------------|-----------|-----|----------------|-------------|------|-----------|--------------------------|------|----------|-------|--|
| Sample ID | LCS-41911 | | SampType: | lcs | | TestCode: | EPA Method 300.0: Anions | | | | |
| Client ID: | LCSS | | Batch ID: | 41911 | | RunNo: | 56106 | | | | |
| Prep Date: | 12/5/2018 | | Analysis Date: | 12/5/2018 | | SeqNo: | 1874613 | | Units: | mg/Kg | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.5 | 90 | 110 | | | | |

Qualifiers:

| | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1811E80

06-Dec-18

Client: Souder, Miller & Associates

Project: Jonie Connor

| | | | | | | | | | | | |
|-----------------------------|-----------|-----|----------------|-------------|------|-----------|---|------|--------------|------|--|
| Sample ID | LCS-41858 | | SampType: | LCS | | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | |
| Client ID: | LCSS | | Batch ID: | 41858 | | RunNo: | 56060 | | | | |
| Prep Date: | 12/3/2018 | | Analysis Date: | 12/4/2018 | | SeqNo: | 1872032 | | 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 | 0 | 91.8 | 70 | 130 | | | | |
| Surr: DNOP | 4.9 | | 5.000 | | 97.4 | 50.6 | 138 | | | | |

| | | | | | | | | | | |
|--------------------------------|-----------|----------------|-----------|-------------|-----------|---|-----------|-------|----------|------|
| Sample ID | MB-41858 | SampType: | MBLK | | TestCode: | EPA Method 8015M/D: Diesel Range Organics | | | | |
| Client ID: | PBS | Batch ID: | 41858 | | RunNo: | 56060 | | | | |
| Prep Date: | 12/3/2018 | Analysis Date: | 12/4/2018 | | SeqNo: | 1872034 | 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 | 10 | | 10.00 | | 105 | 50.6 | 138 | | | |

Qualifiers:

| | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Page 13 of 15

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1811E80

06-Dec-18

Client: Souder, Miller & Associates

Project: Jonie Connor

| | | | | | | | | | | |
|-------------------------------|------------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-41830 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 41830 | RunNo: | 56032 | | | | | |
| Prep Date: | 11/30/2018 | Analysis Date: | 12/3/2018 | SeqNo: | 1870919 | 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 | | 91.2 | 73.8 | 119 | | | |

| | | | | | | | | | | |
|-------------------------------|------------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-41830 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 41830 | RunNo: | 56032 | | | | | |
| Prep Date: | 11/30/2018 | Analysis Date: | 12/3/2018 | SeqNo: | 1870920 | 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 | 99.8 | 80.1 | 123 | | | |
| Surr: BFB | 1100 | | 1000 | | 106 | 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 Detection Limit

W Sample container temperature is out of limit as specified

Page 14 of 15

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1811E80
06-Dec-18

Client: Souder, Miller & Associates
Project: Jonie Connor

| | | | | | | | | | | |
|----------------------------|------------|-------|--------------------------|-------------|---------------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-41830 | | SampType: MBLK | | TestCode: EPA Method 8021B: Volatiles | | | | | |
| Client ID: | PBS | | Batch ID: 41830 | | RunNo: 56032 | | | | | |
| Prep Date: | 11/30/2018 | | Analysis Date: 12/3/2018 | | SeqNo: 1870962 | | Units: mg/Kg | | | |
| 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 | 0.96 | | 1.000 | | 96.1 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|------------|-------|--------------------------|-------------|---------------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-41830 | | SampType: LCS | | TestCode: EPA Method 8021B: Volatiles | | | | | |
| Client ID: | LCSS | | Batch ID: 41830 | | RunNo: 56032 | | | | | |
| Prep Date: | 11/30/2018 | | Analysis Date: 12/3/2018 | | SeqNo: 1870963 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.025 | 1.000 | 0 | 101 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 104 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 104 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 101 | 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 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 Detection Limit

W Sample container temperature is out of limit as specified

Page 15 of 15



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: 1811E80

RcptNo: 1

Received By: Erin Melendrez 11/30/2018 8:45:00 AM

Completed By: Jazzmine Burkhead 11/30/2018 9:22:58 AM

Reviewed By: DAD 11/30/18

Labeled by: ENM 11/30/18

Chain of Custody1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐2. How was the sample delivered? CourierLog In3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐5. Sample(s) in proper container(s)? Yes ☒ No ☐6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒10. Were any sample containers received broken? Yes ☐ No ☒11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐13. Is it clear what analyses were requested? Yes ☒ No ☐14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved bottles checked for pH:

(2 or 12 unless noted)

Adjusted?

Checked by:

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 Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 2.8 | Good | Yes | | | |



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 15, 2018

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Janie Conner

OrderNo.: 1802502

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 4 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 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 #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1802502

Date Reported: 2/15/2018

CLIENT: Souder, Miller & Associates

Project: Janie Conner

Lab ID: 1802502-001

Client Sample ID: L1

Collection Date: 1/31/2018 2:00:00 PM

Received Date: 2/8/2018 10:00:00 AM

Matrix: SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|---|--------|--------|------|-------|----|----------------------|--------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | 560 | 9.1 | | mg/Kg | 1 | 2/13/2018 3:42:36 PM | 36466 |
| Motor Oil Range Organics (MRO) | 150 | 46 | | mg/Kg | 1 | 2/13/2018 3:42:36 PM | 36466 |
| Surr: DNOP | 113 | 70-130 | | %Rec | 1 | 2/13/2018 3:42:36 PM | 36466 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 2/9/2018 5:18:40 PM | 36440 |
| Surr: BFB | 83.2 | 15-316 | | %Rec | 1 | 2/9/2018 5:18:40 PM | 36440 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | | |
|-------------|-----|---|----|---|-------------|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank | Page 1 of 7 |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range | |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range | |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit | |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified | |

Analytical Report

Lab Order 1802502

Date Reported: 2/15/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L2

Project: Janie Conner

Collection Date: 1/31/2018 2:10:00 PM

Lab ID: 1802502-002

Matrix: SOIL

Received Date: 2/8/2018 10:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | 510 | 9.7 | | mg/Kg | 1 | 2/14/2018 11:38:47 AM | 36466 |
| Motor Oil Range Organics (MRO) | 180 | 49 | | mg/Kg | 1 | 2/14/2018 11:38:47 AM | 36466 |
| Surr: DNOP | 70.8 | 70-130 | | %Rec | 1 | 2/14/2018 11:38:47 AM | 36466 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 2/9/2018 5:42:01 PM | 36440 |
| Surr: BFB | 83.3 | 15-316 | | %Rec | 1 | 2/9/2018 5:42:01 PM | 36440 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Methyl tert-butyl ether (MTBE) | ND | 0.097 | | mg/Kg | 1 | 2/9/2018 5:42:01 PM | 36440 |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/9/2018 5:42:01 PM | 36440 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 2/9/2018 5:42:01 PM | 36440 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 2/9/2018 5:42:01 PM | 36440 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 2/9/2018 5:42:01 PM | 36440 |
| Surr: 4-Bromofluorobenzene | 89.5 | 80-120 | | %Rec | 1 | 2/9/2018 5:42:01 PM | 36440 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | | |
|--------------------|-----|---|----|---|-------------|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank | Page 2 of 7 |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range | |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range | |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit | |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified | |

Analytical Report

Lab Order 1802502

Date Reported: 2/15/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L3

Project: Janie Conner

Collection Date: 1/31/2018 2:15:00 PM

Lab ID: 1802502-003

Matrix: SOIL

Received Date: 2/8/2018 10:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | 130 | 9.5 | | mg/Kg | 1 | 2/13/2018 4:31:42 PM | 36466 |
| Motor Oil Range Organics (MRO) | 130 | 47 | | mg/Kg | 1 | 2/13/2018 4:31:42 PM | 36466 |
| Surr: DNOP | 99.7 | 70-130 | | %Rec | 1 | 2/13/2018 4:31:42 PM | 36466 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 2/9/2018 6:05:26 PM | 36440 |
| Surr: BFB | 81.2 | 15-316 | | %Rec | 1 | 2/9/2018 6:05:26 PM | 36440 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | | |
|--------------------|-----|---|----|---|-------------|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank | Page 3 of 7 |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range | |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range | |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit | |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified | |

Analytical Report

Lab Order 1802502

Date Reported: 2/15/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates

Client Sample ID: L4

Project: Janie Conner

Collection Date: 1/31/2018 2:20:00 PM

Lab ID: 1802502-004

Matrix: SOIL

Received Date: 2/8/2018 10:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | | Analyst: TOM |
| Diesel Range Organics (DRO) | 800 | 96 | | mg/Kg | 10 | 2/13/2018 2:53:41 PM | 36466 |
| Motor Oil Range Organics (MRO) | 1100 | 480 | | mg/Kg | 10 | 2/13/2018 2:53:41 PM | 36466 |
| Surr: DNOP | 0 | 70-130 | S | %Rec | 10 | 2/13/2018 2:53:41 PM | 36466 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 2/9/2018 6:28:50 PM | 36440 |
| Surr: BFB | 83.0 | 15-316 | | %Rec | 1 | 2/9/2018 6:28:50 PM | 36440 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | | |
|--------------------|-----|---|----|---|-------------|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank | Page 4 of 7 |
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range | |
| | H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits | |
| | ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range | |
| | PQL | Practical Quantitative Limit | RL | Reporting Detection Limit | |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified | |

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1802502

15-Feb-18

Client: Souder, Miller & Associates**Project:** Janie Conner

| | | | | | | | | | | |
|-----------------------------|-----------|-----|--------------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | LCS-36466 | | SampType: LCS | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | | Batch ID: 36466 | | RunNo: 49070 | | | | | |
| Prep Date: | 2/12/2018 | | Analysis Date: 2/13/2018 | | SeqNo: 1579508 | | 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 | 0 | 92.4 | 70 | 130 | | | |
| Surr: DNOP | 4.4 | | 5.000 | | 87.9 | 70 | 130 | | | |

| | | | | | | | | | | |
|--------------------------------|-----------|--------------------------|-----------|---|------|--------------|-----------|------|----------|------|
| Sample ID | MB-36466 | SampType: MBLK | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
| Client ID: | PBS | Batch ID: 36466 | | RunNo: 49070 | | | | | | |
| Prep Date: | 2/12/2018 | Analysis Date: 2/13/2018 | | SeqNo: 1579509 | | 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 | 10 | | 10.00 | | 102 | 70 | 130 | | | |

| | | | | | | | | | | |
|------------|-----------|-----|--------------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | LCS-36519 | | SampType: LCS | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | | Batch ID: 36519 | | RunNo: 49118 | | | | | |
| Prep Date: | 2/14/2018 | | Analysis Date: 2/14/2018 | | SeqNo: 1582129 | | Units: %Rec | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.4 | | 5.000 | | 87.5 | 70 | 130 | | | |

| | | | | | | | | | | |
|------------|-----------|-----|--------------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | MB-36519 | | SampType: MBLK | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | |
| Client ID: | PBS | | Batch ID: 36519 | | RunNo: 49118 | | | | | |
| Prep Date: | 2/14/2018 | | Analysis Date: 2/14/2018 | | SeqNo: 1582135 | | Units: %Rec | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 10 | | 10.00 | | 102 | 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 Detection Limit
W Sample container temperature is out of limit as specified

Page 5 of 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1802502
15-Feb-18

Client: Souder, Miller & Associates
Project: Janie Conner

| | | | | | | | | | | |
|-------------------------------|----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| 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 | 1100 | | 1000 | | 110 | 15 | 316 | | | |

| | | | | | | | | | | |
|-------------------------------|-----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-36440 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 36440 | RunNo: | 49018 | | | | | |
| 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 | | | |
| Surr: BFB | 1200 | | 1000 | | 116 | 15 | 316 | | | |

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 Detection Limit

W Sample container temperature is out of limit as specified

Page 6 of 7

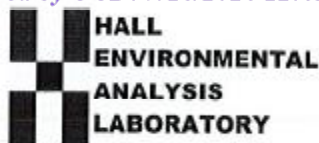
QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **1802502****15-Feb-18****Client:** Souder, Miller & Associates**Project:** Janie Conner

| Sample ID MB-36440 | SampType: MBLK | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|--------------------------------|--------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 36440 | | RunNo: 49018 | | | | | | | |
| Prep Date: 2/8/2018 | Analysis Date: 2/9/2018 | | SeqNo: 1578215 | | Units: mg/Kg | | | | | |
| 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 | SampType: LCS | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|--------------------------------|--------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 36440 | | RunNo: 49018 | | | | | | | |
| Prep Date: 2/8/2018 | Analysis Date: 2/9/2018 | | SeqNo: 1578216 | | Units: mg/Kg | | | | | |
| 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. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | 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 Number: 1802502

RcptNo: 1

Received By: Sophia Campuzano 2/8/2018 10:00:00 AM

Completed By: Dennis Suazo 2/8/2018 12:53:58 PM

Reviewed By: DPS

2/8/18

Labeled By: [Signature]

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 ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

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 Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1 | 0.3 | Good | Not Present | | | |

Chain-of-Custody Record

Client: SMAMailing Address: Carlsbad

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)

Accreditation

☐ NELAP☐ Other☐ EDD (Type)

Turn-Around Time:

☐ Standard ☐ Rush

Project Name:

Jaric Connor

Project #:

Project Manager:

Austin Weyand

Sampler:

Lm

On Ice:

☒ Yes ☐ NoSample Temperature: 1.3 - 1.0 (C) = 0.3

Container Type and #

Preservative Type

HEAL No.

1802502

Date

Time

Sample Request ID

Matrix

Date

Time

Sample Request ID

Matrix

Date

Time

Sample Request ID

Matrix

Date

Time

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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

CONDITIONS

Action 383939

CONDITIONS

| | |
|---|--|
| Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240 | OGRID: 228937 |
| | Action Number: 383939 |
| | Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------------------------|----------------|
| amaxwell | Historical document upload. | 9/16/2024 |