

August 28, 2024

Ms. Brittany Hall New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

Re: Remediation Closure and Reclamation Report ConocoPhillips (Heritage COG Operating, LLC) West Brushy 8 Federal SWD #001 Release Unit Letter A, Section 08, Township 26 South, Range 29 East Eddy County, New Mexico Incident ID# nAB1715742101 2RP-4240

Ms. Hall,

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (ConocoPhillips) to evaluate a historical Heritage COG Operating, LLC (COG) release and subsequent remedial actions performed at the West Brushy 8 Federal SWD #001 release site (API No. 30-015-31675). The release footprint is located in Public Land Survey System (PLSS) Unit Letter A, Section 08, Township 26 South, Range 29 East, in Eddy County, New Mexico (Site). The release point coordinates reported in the initial spill notification are 32.063037°, -103.997621°, as shown on Figures 1 and 2. The release extent provided in prior reporting is located approximately 300 feet north of the reported coordinates. The Site is located on federal lands managed by the Bureau of Land Management (BLM). The release occurred from a COG flowline on a facility operated by a third party.

## BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release was discovered on May 27, 2017. The release was caused by a hole in the bottom of a fitting in a flowline. The fitting was replaced, and a vacuum truck was dispatched to remove all freestanding fluids. Approximately 30 bbls of produced water were released to pasture and along the ditch south of the lease road, of which approximately 20 bbls were recovered. The approximate release extent is shown in Figure 3.

The NMOCD approved the initial C-141 on June 5, 2017, and subsequently assigned the release the Incident ID nAB1715742101 and the remediation permit (RP) number 2RP-4240. This incident is included in an Agreed Compliance Order-Releases (ACO-R) between COG and the NMOCD signed on November 20 and 26, 2018, respectively. The initial C-141 form is included in Appendix A.

### 2017 BBC SITE ASSESSMENT

From July 3, 2017 to October 11, 2017 BBC International (BBC) conducted assessment activities at the nAB1715742101 release site on behalf of COG. Assessment activities consisted of advancing fifteen (15) hand auger borings (SP1 through SP10, and 1-P through 5-P) and two (2) soil borings (SB1 and SB2) to various depths to delineate the release extent horizontally and vertically. The BBC sampling locations are presented in Figure 3.

A total of forty-one (41) soil samples were collected from the seventeen (17) sampling locations and submitted to Cardinal Laboratories in Hobbs, New Mexico (Cardinal) for analysis. Analytical results were above the reclamation limit for chloride (600 mg/kg) in surface (0-4 feet bgs) soils at seven (7) of the sampling locations. Analytical results associated with samples collected during the 2017 BBC assessment activities are summarized in Table 1.

# 2017 NMOCD-APPROVED WORKPLAN

A Delineation Workplan was prepared by BBC based on the results of the 2017 BBC assessment activities. The Delineation Workplan was submitted to the NMOCD and the BLM via email on November 22, 2017. In the report, BBC proposes the following:

- The leak area near SP1 SP3 will be excavated to a depth of 1 foot.
- The leak area near SP4 SP7, SB1, and SB2 will be excavated to a depth of 4 feet with an impermeable liner placed in the bottom of the excavation.
- The leak area near SP8 SP10 will require zero remediation.
- The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

A copy of the Delineation Workplan is included in the OCD Online Imaging files. The proposed excavation extents are indicated in Figure 3.

The Delineation Workplan was conditionally approved by Crystal Weaver of the NMOCD via email on February 16, 2018. Ms. Weaver states:

"Due to the amount of time this work plan has sat in OCD's que I will go ahead and approve it, however, delineation on this is not Complete and it will need to be Completed during the excavation process.

- In the area of the spill that is demarked as the pink area (according to the site map in the work plan) recommended action proposed by BBC is 4ft excavation and a liner placed, however, sampling for all of that area only goes down to either a max of 3ft depth in some places (SP-6 & SP-7) and 4ft depth in other places (SP-4 & SP-5) and then has follow up delineation effort via soil boring that starts at Sft depth (SB-i & SB-2). Now I understand that there is a road along the pink demarked area but if able to delineate why was a gap made in the data? OCD factors vertical cumulations of chlorides in the soil column when determining where liner placement will be ideal to set if indeed a liner is the most appropriate measure that can be taken for remediation. So, without a full delineation liner placement cannot be determined. Please collect delineation data near the SB-1 and SB-2 areas, starting SB-1 at 5ft and SB-2 at 4ft. thru the 8ft interval. Upon receipt of data for delineation completion please contact OCD and mention that the project has an urgent need for liner placement determination to be able to backfill.
- I measured on my map that this release has a proximity of 1400÷/- to the bank of the Pecos River and is on a steep elevational raise that appears to have a seamless downgrade starting from the boundary area of the release going to the river, because this release has sat for some time and because it has a sister release that has some overlap (2RP-3774) and that release has sat for even longer OCD would like to request a prompt submission of work plan be remitted for the older 2RP-3774 release (since one was never received) and requests that if practicable the two releases be remediated at the same time.
- The site ranking is never stated out right in this work plan, but it can be inferred. So based on data OCD has referenced we will concur with the inferred ranking of 10 based on depth to ground water data cited in the work plan and cross checked by OCD. Since site ranking is not applicable for target delineation and clean up levels on chlorides, chlorides will need to be remediated (if practicable) and delineated to 600ppm or less both vertically and horizontally.
- Confirmation side wall lab tested samples will be required for all excavated areas."

Follow-up email correspondence from Mike Bratcher of the NMOCD on February 22, 2018 removed the conditions of the prior NMOCD approval and approved the remediation proposal as written.

Mr. Bratcher states:

"After consulting with Ms. Weaver and going over the previous releases at this site, this proposal (2RP-4240) is approved as submitted. Some of the data and information from the previous releases was not available to Ms. Weaver when she reviewed this proposal and was my fault. Since there are several releases to be addressed relative to this site, OCD notes the open RP numbers, and status, as follows:

- 2RP-3353 and 2RP-3774 releases cover basically the same area and have approved remediation proposals.
- 2RP-4094 has an approved remediation proposal.
- 2RP-4330 has an approved remediation proposal.
- 2RP-4240 now has an approved remediation proposal.

It is OCD's understanding that all the releases associated with this site, as listed above, will be addressed upon mobilization to the site, and that mobilization will occur in the very near future. Please advise once that has been scheduled. Also, please advise if this information is not as reflected in COG records.

In addition, for future reference, when performing vertical delineation and transitioning from conventional delineation to utilizing boring equipment, please attempt where possible, to obtain samples in a manner that does not leave gaps in the analytical data. OCD would prefer to see uniform data throughout the delineation process.

Federal sites will require like approval from BLM, if not previously obtained."

Copies of the regulatory correspondence are included in the Remediation Work Plan dated January 29, 2024, available on the NMOCD permitting website.

## REMEDIAL ACTION, 2019 CLOSURE REPORT, AND NMOCD REJECTION

The West Brushy 8 Federal SWD #001 facility was subject to numerous releases in the period between 2015 and 2017. Based on available correspondence, BBC bundled several incidents into one remedial action. Post-assessment, BBC began the excavation of impacted soils in pasture. A Closure Report prepared by BBC states that excavation activities were completed in accordance with the approved work plan for each release. The northern area of the nAB1715742101 release extent was reportedly excavated to1 foot bgs, and the middle portion was reportedly excavated to 4 feet bgs with a liner placed as the bottom of the excavation, in accordance with the approved Delineation Workplan. Photographs of the excavated and backfilled areas were included in the Closure Report. The figure provided in the Closure Report for Incident nAB1715742101 was identical to that provided in the Delineation Workplan. A copy of the 2019 BBC Closure Report is included in the Remediation Work Plan dated January 29, 2024, available on the NMOCD permitting website.

The Closure Report for four separate releases that occurred at the West Brushy 8 Federal SWD #001 Site, including Incident nAB1715742101, was submitted on January 22, 2019. The Closure Report was rejected by NMOCD for Incident nAB1715742101 on December 12, 2022 with the following comments:

- "In the email dated 02/16/2018 found in the incident files, conditions of approval included confirmation side walls lab tested samples were required. No laboratory analytical results included in the report.
- 2RP-4240 closed. Refer to incident #nAB1715742101 in all future communication.
- Submit a complete report through the OCD Permitting website by 3/17/2023."

Copies of the NMOCD correspondence are included in the Remediation Work Plan dated January 29, 2024, available on the NMOCD permitting website.

# **EVALUATION OF REMEDIAL ACTION**

Following receipt of the Closure Report rejection, ConocoPhillips engaged Tetra Tech to review all available historical documentation for all release incidents associated with the West Brushy 8 Federal SWD #001 facility, and to perform visual site inspections of the numerous release incidents in order to ascertain the extent of the remedial actions taken by BBC. No laboratory analytical data or other evidence of confirmation sampling was discovered during the file review.

Tetra Tech personnel visited the release site in February and August 2023 in order to geolocate the photographs of excavated and backfilled areas included in the Closure Report and to determine current site conditions. Photographic documentation of the 2018 remedial activities and the 2023 site conditions is presented in the Remediation Work Plan dated January 29, 2024, available on the NMOCD permitting website.

The area reported by BBC as remediated to 4 feet bgs with a liner at the base of the excavation, as presented in Figure 3, was identified in the field based on the figure included in the approved Delineation Workplan and BBC Closure Report and was corroborated by the photographs included in the BBC Closure Report as well as observations made during the 2023 visual site inspections. The remediated area is located in a third-party right-of-way on the south side of the lease road. Vegetative growth was observed in portions of the remediated extent, and no staining or other visible evidence of the release were present at the time of the site inspections.

The area reported by BBC as remediated to 1 foot bgs on the north side of the lease road was identified in the field as a natural drainage area adjacent to a third-party pipeline right-of-way. Sparse vegetation was observed in this area.

# SITE CHARACTERIZATION

The Site Characterization performed by BBC at the time of the assessment (and ensuing proposed Delineation Workplan) established a depth to groundwater at 75 feet bgs based on the New Mexico Office of the State Engineer (NMOSE) reporting system. This Site Characterization was accepted when the Delineation Workplan was approved.

Given the age of the release and the associated actions, a contemporized site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, streams, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The Site is in an area of medium karst potential. The Pecos River is located approximately 1,800 feet northwest of the Site. Two NMOSE stream bodies are located approximately 600 and 1,000 feet from the release areas, respectively.

There are no water wells listed in the NMOSE database located within approximately ½ mile (800 meters) of the site. According to data from two (2) wells listed in the NMOSE database located approximately 1.5 miles (2,400 meters) from the Site, groundwater was encountered at a minimum depth of 75 feet below ground surface (bgs). The Site characterization data is presented in Appendix B.

# REGULATORY FRAMEWORK

Based upon the lack of groundwater data within a  $\frac{1}{2}$  mile radius and the proximity to the Pecos River and stream bodies, in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene,

toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the previously-approved Delineation Workplan and the contemporized site characterization, and in accordance with Table I of 19.15.29.12 NMAC, the recommended remedial action levels (RRALs) for the Site are as follows:

Constituent	Site RRALs
Chloride	10,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 mg/kg

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC) (September 6, 2019), the following reclamation requirements for surface soils (0-4 ft bgs) outside of active oil and gas operations are as follows:

Constituent	<b>Reclamation Requirements</b>
Chloride	600 mg/kg
ТРН	100 mg/kg

## 2023-2024 ADDITIONAL ASSESSMENT ACTIVITIES

Tetra Tech conducted additional assessment sampling at the Site on behalf of ConocoPhillips in order to evaluate current soil concentrations and confirm the reported remedial actions performed at the nAB1715742101 release Site. On September 21, 2023 Tetra Tech installed fifteen (15) hand auger borings (AH-23-1 through AH-23-15) to depths ranging from 1 to 4 feet bgs in a cross section pattern across the release extent.

Tetra Tech personnel returned to the Site on November 30, 2023 to install two (2) soil trenches (T-1 and T-5) in the northern drainage area in an attempt to vertically delineate the release in this area, as well as two (2) hand auger borings (AH-23-16 and AH-23-17) to further delineate the release horizontally. Due to the proximity of a buried Energy Transfer pipeline, these soil trenches were placed 25 feet east of the buried line and were not centered within the release extent.

In coordination with all third-party utility operators in the area, Tetra Tech personnel returned to the Site on January 4-5, 2024 to install an additional sixteen (16) soil trenches (T-24-1 through T-24-16) and four (4) hand auger borings (H-24-1 through H-24-4). The 2024 sampling efforts were expanded to delineate two adjacent and overlapping historical releases (incident IDs nAB1619432451 and nAB1529948530).

Tetra Tech personnel returned to the Site on January 10, 2024 to oversee the installation of six (6) borings with an air rotary drill rig. Boring locations were chosen based on all previous sampling results in order to vertically delineate soil impacts from the various historical releases.

The 2023-2024 sampling locations pertaining to the nAB1715742101 incident alone are shown on Figure 4. All 2023-2024 sampling locations are presented along with the nAB1619432451 and nAB1529948530 release incident extents in Figure 5.

A total of ninety-seven (97) soil samples were collected from forty-five (45) sampling locations during the four (4) mobilizations and submitted to Cardinal under five (5) separate chain-of-custody and analysis requests to be analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B. A copy of the laboratory analytical reports and chain-of-custody documentation for the 2023-2024 sampling events are included in the Remediation Work Plan dated January 29, 2024, available on the NMOCD permitting website.

Analytical results from the 2023-2024 soil assessment efforts are summarized in Table 2. The analytical results associated with the 0-1 foot bgs soil interval at trench location T-24-6 exceeded the reclamation limit of 100 mg/kg for TPH. There were no other TPH or BTEX results which exceeded the applicable reclamation limits or RRALs in any of the analyzed samples.

Chloride concentrations were detected in surface soils (0-4 feet bgs) at levels above the reclamation limit of 600 mg/kg at seventeen (17) of the sample locations. There were no analytical results associated with subsurface (greater than 4 feet bgs) soils which exceeded the chloride RRAL of 10,000 mg/kg.

The sampling locations associated with the nAB1715742101 incident which exceeded the reclamation limits were those associated with the drainage feature in the portion of the release extent located north of the lease road. The analytical results associated with the portion of the release extent located south of the lease road (AH-10 through AH-15) were all below the reclamation limits for all constituents. These sampling locations also correspond geographically with the photographic documentation provided in the 2019 BBC Closure Report. Horizontal and vertical delineation of the release extent was achieved in accordance with 19.15.29.11(5) NMAC as a result of the 2023-2024 sampling events. The 2023-2024 sampling locations pertaining to the nAB1715742101 incident alone are shown on Figure 4.

The analytical results associated with the two adjacent and overlapping historical releases (incident IDs nAB1619432451 and nAB1529948530) will be discussed in further detail in separate reports prepared for those incidents.

# **REMEDIATION WORK PLAN AND REGULATORY APPROVAL**

Tetra Tech, on behalf of ConocoPhillips, prepared a Remediation Work Plan dated January 29, 2024 and submitted it to the NMOCD and the BLM for approval. The Remediation Work Plan described the results of the assessment activities and proposed to remove soils that exceeded the Site reclamation limits and RRALs as determined by the results of the assessment activities. The proposed remedial action addressed the nAB1715742101 incident, which is the subject of this report, as well as the two adjacent and overlapping historical releases (incident IDs nAB1619432451 and nAB1529948530).

The Remediation Work Plan was approved via email by Brittany Hall of the NMOCD on January 31, 2024, with the following conditions:

• "Remediation plan approved. Sidewall confirmation samples in the immediate vicinity of any pressurized lines and the "exclusion zone" on Figure 6 must be collected. Confirmation bottom and sidewall samples representative of no more than 400 square feet is approved. A complete and accurate remediation closure report will need to be submitted by April 30, 2024."

A series of extensions were requested for the remedial activities and associated reporting. The final extension was approved by Brittany Hall on July 30, 2024, and the new due date is August 30, 2024. Copies of the regulatory correspondence are included in Appendix C.

# **CULTURAL SURVEY**

In associated correspondence, the BLM conditionally approved the proposed remedial action upon the condition that a full archeological survey be conducted to include any areas that will be disturbed in order to access the release area. An extension request for reporting was submitted to the NMOCD via email on April 30, 2024 to allow time for the cultural survey and to get concurrent approval from the BLM. The extension request was approved via email on May 1, 2024 for a new due date of July 30, 2024. Copies of the regulatory correspondence are included in Appendix C.

Tetra Tech subcontracted SWCA Environmental Consultants (SWCA) to conduct an intensive pedestrian cultural resources survey for the West Brushy 8 Federal SWD #1- Proposed Remediation Project in Eddy County, New Mexico. The survey included the pipe location encompassed by the release remediation area and a 30-meter (m) (100-foot) cultural resources buffer as well as a portion of LA 66112. Portions of the

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proposed project are covered by three previous qualifying surveys, surveyed within the past 10 years (New Mexico Cultural Resource Information System [NMCRIS] Activity Numbers 132233, 137329, and 145263); these areas were not resurveyed at this time. The total survey area is 6.08 acres (2.46 hectare [ha]). No new historic cultural properties, archaeological sites, or isolated occurrences were identified during the investigation. One previously recorded archaeological site, LA 66112, was visited due to its proximity to the inadvertent release. The western third of the site was updated based on communication with Aaron Whaley at the BLM Carlsbad Field Office (CFO) (2/26/2024).

In accordance with Section 106 of the National Historic Preservation Act (Public Law 89-665), as amended, a cultural resources inventory was completed to locate, identify, and record any cultural resources that may be affected within the area of potential effects (APE) of the proposed project, and provide recommendations regarding their eligibility for listing in the National Register of Historic Places (NRHP).

LA 66112 was determined eligible for the NRHP. The observed portion of the site does not contribute to the eligibility. The inadvertent release area does not extend into the site, and no remediation activities will take place within 100 feet of the site. No additional investigation or treatment is recommended regarding the current undertaking. If subsurface cultural materials are encountered during remediation, all work should cease, and the BLM CFO should be notified immediately.

The BLM approved ConocoPhillips to proceed with the remedial action following the completion of the cultural survey in an email dated June 26, 2024. Copies of the regulatory correspondence are included in Appendix C.

# **REMEDIAL ACTIVITIES AND CONFIRMATION SAMPLING**

From July 10 through August 7, 2024, Tetra Tech personnel were onsite to supervise the remedial activities proposed in the approved Remediation Work Plan, including excavation, disposal, and confirmation sampling. Prior to confirmation sampling, on July 11, 2024, the NMOCD district office was first notified via the OCD Portal in accordance with Subsection D of 19.15.29.12 NMAC. As mentioned, a second extension request was submitted to the NMOCD on July 30, 2024 and was approved for a new due date of August 30, 2024. Regulatory correspondence, including the approved extension request and release notifications and variance requests are documented in Appendix C.

Impacted soils were excavated as indicated in Figure 6. The areas within the release footprint were excavated to a maximum depth of 4 feet below surrounding grade. Due to safety concerns associated with working around pressurized lines, impacted soils were excavated by hand or hydro-excavation within 4 feet of subsurface lines. Heavy machinery remained outside this buffer zone to avoid any associated risk or disturbance. The remediated surface area associated with incident nAB1715742101 was comprised of approximately 17,650 square feet. Photographs from the excavated areas prior to backfill are provided in Appendix D.

Following excavation, confirmation floor and sidewall samples were collected from the entire remediated area and submitted for laboratory analysis to verify efficacy of remediation activities. Per the NMOCD approved confirmation sampling plan, confirmation samples were collected such that each discrete sample (sidewall and floor) was representative of no more than 400 square feet of excavated area. The combined remediated extent had a surface area of approximately 19,890 square feet. A total of fifty-one (51) confirmation floor sample locations and twenty-two (22) confirmation sidewall sample locations were collected for laboratory analysis during remedial activities. Confirmation sidewall sample locations were categorized with the cardinal direction (N, E, S, W) followed by SW-#. Confirmation floor sample locations were labeled with FS-#. Internal sidewall samples were collected from the vertical faces of the excavation between the 1-ft and 4-ft areas and labeled with ISW-#.

At select sidewall locations where the initial confirmation soil sampling analytical results exceeded the reclamation limits, the sidewalls were expanded, and iterative confirmation samples were collected to encompass the original sample locations that triggered removal (nomenclature defined in Table 3) post-

additional excavation. Final excavated areas, depths and confirmation sample locations are indicated in Figure 6.

Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal. The soil samples were analyzed for TPH (GRO+DRO+MRO) by EPA Method 8015M, BTEX by EPA Method 8021B, and chlorides by SM4500Cl-B. The analytical results were directly compared to the reclamation limits and established Site RRALs to demonstrate compliance.

The results of the July and August 2024 confirmation sampling events are summarized in Table 3. All final confirmation soil samples (floor and sidewall) were below applicable cleanup levels for chloride, TPH, and BTEX. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

All excavated material was transported offsite for proper disposal. Approximately 1,850 cubic yards of material were transported to the R360 Red Bluff Facility in Orla, Texas.

## **RECLAMATION ACTIVITIES**

Based on 19.15.29.13 NMAC, all areas disturbed by the remediation have been reclaimed. Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-ofcustody, and analyzed within appropriate holding times by Cardinal. The soil samples were analyzed for TPH (GRO+DRO+MRO) by EPA Method 8015M, BTEX by EPA Method 8021B, and chlorides by SM4500CI-B. The analytical results were directly compared to the reclamation requirements and established Site RRALs to demonstrate compliance. All final confirmation soil samples (floor and sidewall) were below the reclamation limits for chloride, TPH, and BTEX. Excavated areas, depths and confirmation sample locations are indicated in Figure 6. The results of the July and August 2024 confirmation sampling events are summarized in Table 3.

Once acceptable confirmation sample results were received, the excavation was backfilled with clean material to pre-release grade. In accordance with 19.15.29.12 NMAC, the reclaimed area contained a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0. The soil cover included a top layer consisting of one foot of suitable material to establish vegetation at the site. The backfilled areas in the pasture were seeded following backfilling, to aid in revegetation. Based on the soils of the site, the BLM Seed Mix #2 was used for seeding and was planted in the amount specified in the pounds pure live seed (PLS) per acre.

The backfill material was sourced from the R360 Red Bluff Facility. Twenty-one (21) representative soil samples were collected by R360 from the backfill material used for the reclamation of the project site on July 22, 2024 and sent to Eurofins in Carlsbad, New Mexico to be analyzed for chlorides by EPA Method 300.0. Tetra Tech collected one additional backfill sample from the R360 Red Bluff facility on August 22, 2024 and submitted to Cardinal to be analyzed for TPH (GRO+DRO+MRO) by EPA Method 8015M, BTEX by EPA Method 8021B, and chlorides by SM4500Cl-B. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The analytical results associated with the backfill sample collected by Tetra Tech are summarized in Table 4.

Site inspections will be performed annually to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. Reclamation activities have been implemented in consultation with the BLM.

### CONCLUSION

ConocoPhillips respectfully requests closure of the incident based on the confirmation sampling results and remedial activities performed. The final C-141 forms are enclosed in Appendix A.

ConocoPhillips

If you have any questions concerning the remediation activities for the Site, please call me at (512) 739-7874 or Christian at (512) 338-2861.

Sincerely, **Tetra Tech, Inc.** 

Anno

Samantha K. Abbott, P.G Project Manager

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Christian M. Llull, P.G. Program Manager

cc: Mr. Ike Tavarez – ConocoPhillips Ms. Shelly Taylor, BLM

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nAB1715742101 Remediation Closure and Reclamation Report August 28, 2024

# LIST OF ATTACHMENTS

## Figures:

- Figure 1 Overview Map
- Figure 2 Topographic Map
- Figure 3 Approximate Release Extent and Assessment (BBC)
- Figure 4 Approximate Release Extent and Additional Assessment (TT)
- Figure 5 Remediation Extents and Confirmation Sampling Locations

# Tables:

- Table 1 Summary of Analytical Results 2017 BBC Soil Assessment
- Table 2 Summary of Analytical Results 2023-2024 TT Soil Assessment
- Table 3 Summary of Analytical Results Soil Remediation
- Table 4 Summary of Analytical Results Soil Backfill

## Appendices:

Appendix A - C-141 Forms

Appendix B – Site Characterization Data

Appendix C – Regulatory Correspondence

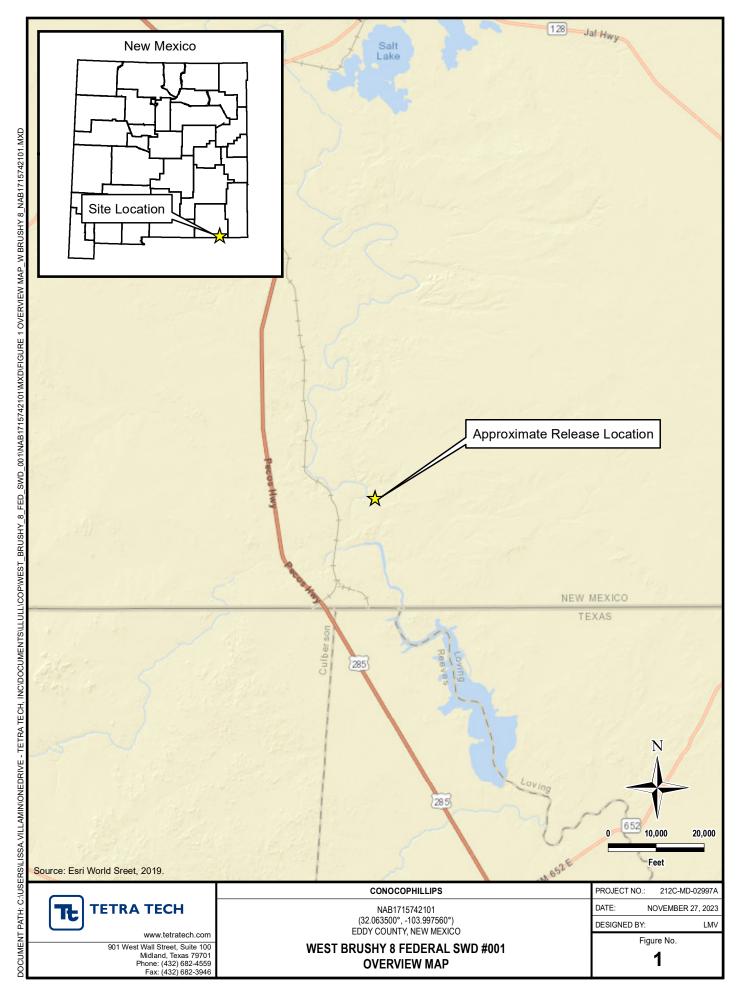
Appendix D – Photographic Documentation

Appendix E – Laboratory Analytical Data

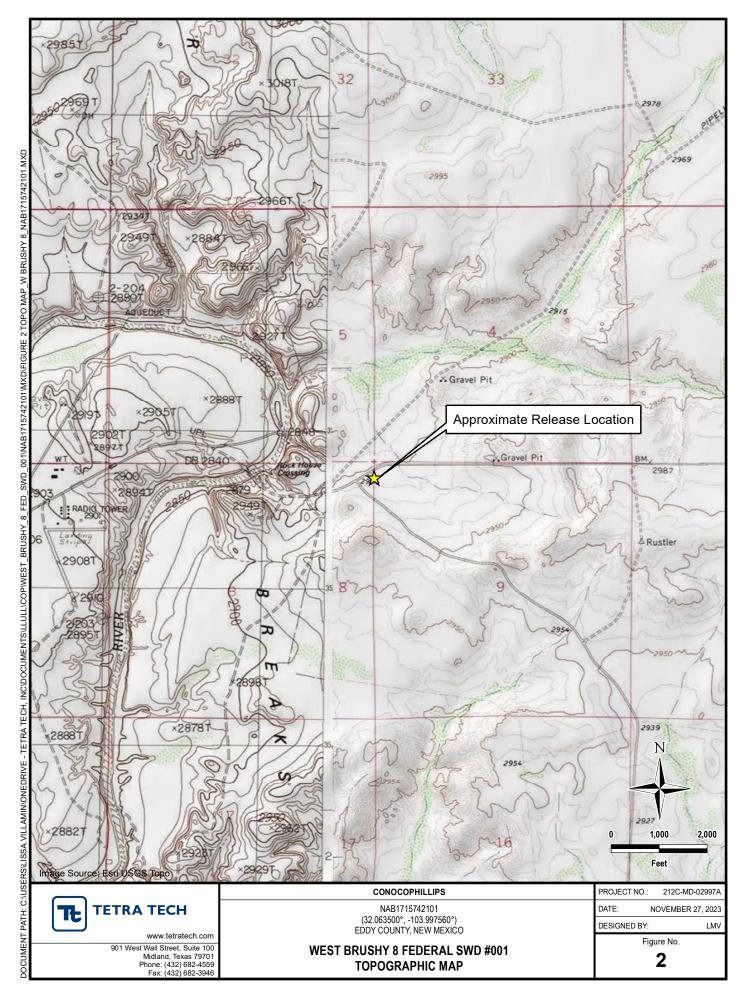
10

# **FIGURES**

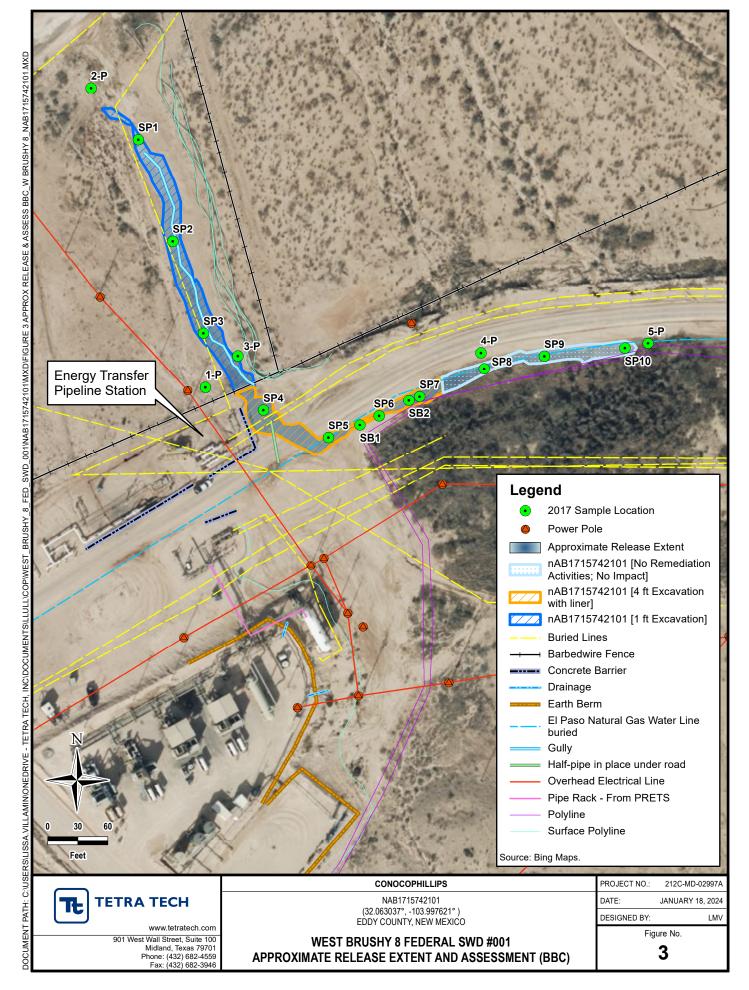
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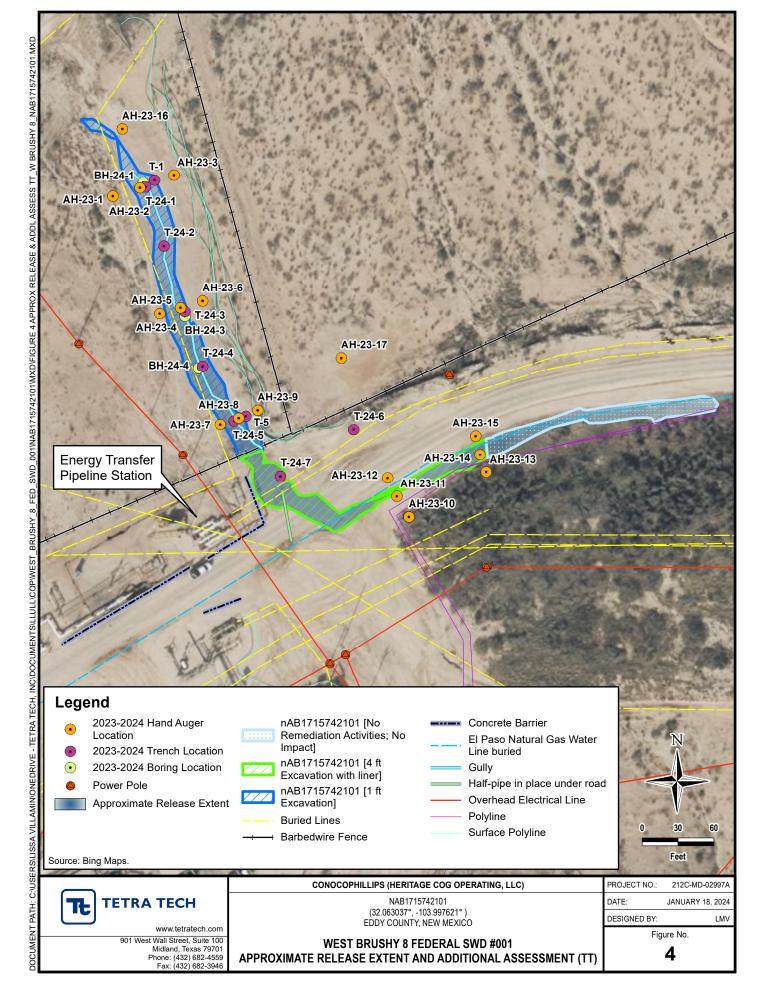
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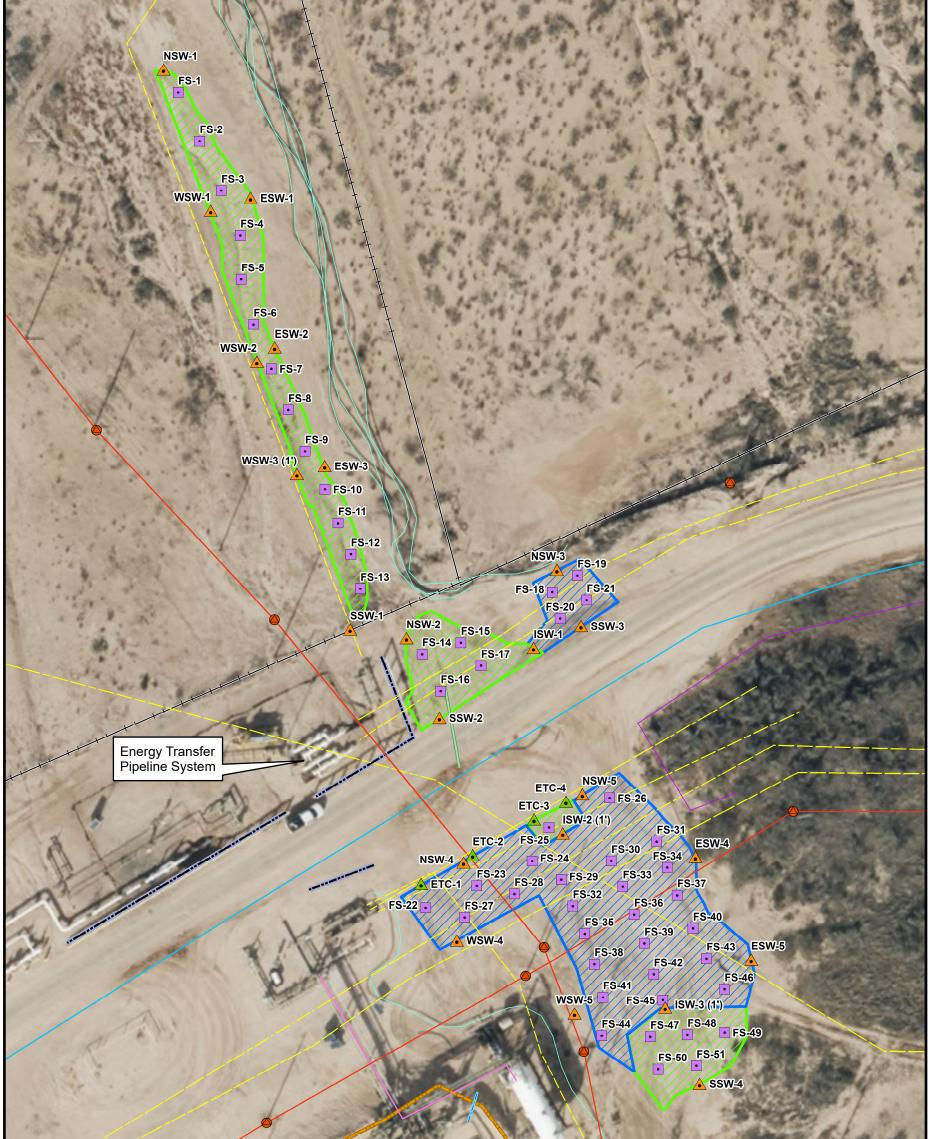


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# Legend

- **Confirmation Floor Sample Location** •
- **Confirmation Sidewall Sample Location**
- **ETC Line Sample Locations** ▲
- Power Pole
- Excavated Area 1' bgs
- + Barbed wire Fence
- BGS: Below Ground Surface Source: Bing Maps.
- Excavated Area 4' bgs
- **Buried Line** El Paso Natural Gas Water Line Buried
  - Half-pipe in place under road

---- Concrete Barrier

Drainage

Earth Berm

- **Overhead Electrical Line**
- Pipe Rack From PRETS
  - Polyline
    - Surface Polyline



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# TABLES

### TABLE 1

# SUMMARY OF ANALYTICAL RESULTS 2017 BBC SOIL ASSESSMENT- (nAB1715742101/2RP-4240) CONOCOPHILLIPS WEST BRUSHY 8 FEDERAL SWD #001 RELEASE DOR: 5/17/2017 EDDY COUNTY, NEW MEXICO

									BTEX	2								т	PH <sup>3</sup>		
Comple ID	Sample Date	Sample Depth	Chlorid	e1	Benzer		Toluer		Ethylben	1000	Total Xyl	0005	Total B	EV	GRO		DRO	1	EXT D	RO	Total TPH
Sample ID	Sample Date				Denzei		Tolder		Luiyiben	20110	Total Xyl	enes	Total D		C <sub>6</sub> - C <sub>1</sub>	10	> C <sub>10</sub> -	C <sub>28</sub>	> C <sub>28</sub> -	C <sub>36</sub>	(GRO+DRO+EXT DRO)
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
		1	2920		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		-		<20.0
SP-1	7/3/2017	2	112		-		-		-		-		-		-		-		-		-
		7	96		-		-		-		-		-		-		-		-		-
		1	2960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		-		<20.0
SP-2	7/3/2017	2	112		-		-		-		-		-		-		-		-		-
		7	64		-		-		-		-		-		-		-		-		-
		1	2840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		-		<20.0
SP-3	7/3/2017	2	16		-		-		-		-		-		-		-		-		-
		7	32		-		-		-		-		-		-		-		-		-
		1	9460		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		-		<20.0
SP-4	7/3/2017	3	4400		-		-		-		-		-		-		-		-		-
		4	624		-		-		-		-		-		-		-		-		-
		1	7330		<0.050		0.315		0.071		0.428		0.814		<10.0		<10.0		-		<20.0
SP-5	7/3/2017	3	7330		-		-		-		-		-		-		-		-		-
		4	5200		-		-		-		-		-		-		-		-		-
SP-6	7/3/2017	1	8000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		-		<20.0
	.,-,	3	5860		-		-		-		-		-		-		-		-		-
SP-7	7/3/2017	1	7200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		-		<20.0
51 7	17372017	3	3480		-		-		-		-		-		-		-		-		-
SP-8	7/19/2017	Surface	124		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		125		-		125
SP-9	7/19/2017	Surface	176		<0.050		<0.050	1	<0.050		<0.150		<0.300		<10.0		78.3		-		78.3
SP-10	7/19/2017	Surface	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		35.7		-		35.7
1-P	7/19/2017	Surface	112		-		-		-		-		-		-		-		-		-
2-P	7/19/2017	Surface	64		-		-		-		-		-		-		-		-		-
3-P	7/19/2017	Surface	48		-		-		-		-		-		-		-		-		-
4-P	7/19/2017	Surface	64		-		-		-		-		-		-		-		-		-
5-P	7/19/2017	Surface	48		-		-		-		-		-		-		-		-		-

### TABLE 1

# SUMMARY OF ANALYTICAL RESULTS 2017 BBC SOIL ASSESSMENT- (nAB1715742101/2RP-4240) CONOCOPHILLIPS WEST BRUSHY 8 FEDERAL SWD #001 RELEASE DOR: 5/17/2017 EDDY COUNTY, NEW MEXICO

									BTEX	2								т	PH <sup>3</sup>		
Sample ID	Sample Date	Sample Depth	Chlorid	e1	Benzei	10	Toluer	10	Ethylben	70no	Total Xyl	onos	Total B	TFX	GRO		DRO		EXT DI	20	Total TPH
Sample ID	Sample Date				Delizer	ie	Tolder	ie	Luiyiben	Lene	Total Ay	enes	Total D		C <sub>6</sub> - C <sub>1</sub>	.0	> C <sub>10</sub> - 0	C <sub>28</sub>	> C <sub>28</sub> -	C <sub>36</sub>	(GRO+DRO+EXT DRO)
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
		8	1260		-		-		-		-		-		-		-		-		-
		10	3680		-		-		-		-		-		-		-		-		-
		15	752		-		-		-		-		-		-		-		-		-
		20	944		-		-		-		-		-		-		-		-		-
SB-1	10/11/2017	25	928		-		-		-		-		-		-		-		-		-
		30	688		-		-		-		-		-		-		-		-		-
		35	592		-		-		-		-		-		-		-		-		-
		40	544		-		-		-		-		-		-		-		-		-
		45	416																		
		8	2920		-		-	1	-		-	1	-	1	-		-		-	1	-
		10	176		-		-		-		-		-		-		-		-		-
SB-2	10/11/2017	15	144		-		-		-		-		-		-		-		-		-
		20	304		-		-		-		-		-		-		-		-		-
		25	544		-		-		-		-		-		-		-		-		-

NOTES:

ft. Feet

Bold and italicized values indicate exceedance of proposed Remediation RRALs and/or Reclamation Requirements.

QUALIFIERS:

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

Method 8021B
 Method 8015M

3 Method 8015M

- Not analyzed for parameter

# TABLE 2 SUMMARY OF ANALYTICAL RESULTS 2023-2024 ADDITIONAL SOIL ASSESSMENT nAB1715742101 AND nAB1619432451 AND nAB1529948530 CONOCOPHILLIPS WEST BRUSHY 8 FEDERAL SWD #001 EDDY COUNTY, NM

			Field Sci	reening						BTEX <sup>2</sup>									TPH <sup>3</sup>			
		Sample Depth	Resu	ults	Chloride	Down		Talua		<b>Ethulkoweene</b>	Total Vul		Tatal DT		GRO		DRO		EXT D	80		Total TPH
			ExStik	Titration		Benz	ene	Toluer	he	Ethylbenzene	Total Xyl	enes	Total BTI	EX.	C <sub>6</sub> - C <sub>10</sub>		> C <sub>10</sub> - C	C <sub>28</sub>	> C <sub>28</sub> -	C <sub>36</sub>	(GRO+DRO)	(GRO+DRO+EXT DRO)
Sample ID	Sample Date	ft. bgs	рр	m	mg/kg (	ב mg/kg	Q	mg/kg	Q	mg/kg Q	mg/kg	Q	mg/kg	Q	mg/kg	Q n	ng/kg	Q	mg/kg	Q	mg/kg	mg/kg
		Reclamation Limit for Soils 0-4' bgs:		-	<u>600 mg/kg</u>	<u>10 m</u>	<u>g/kg</u>						<u>50 mg/k</u>	<u>a</u>								<u>100 mg/kg</u>
		RRAL for Soils >4' bgs (GW 50-100 ft):		-	<u>10,000 mg/kg</u>	<u>10 ma</u>	<u>ı/kg</u>						<u>50 mg/k</u>	<u>q</u>							<u>1,000 mg/kg</u>	<u>2,500 mg/kg</u>
AH-23-1	9/21/2023	0-1	392	-	48	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		19.1		-	19.1
AH-23-2	9/21/2023	0-1	2230	-	2,400	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
		2-3	2690	-	2,080	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0		27.5		<10.0		27.5	27.5
T-1	11/30/2023	0-1	627	-	304	<0.050	_	<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
		3-4	2,080	-	1,630	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
T-24-1	1/4/2024	5-6	1,130	-	928	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
		6-7	1,110		1,020	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
		7-8	-	500	512	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
BH-24-1	1/10/2024	8-9	1,130	600	912	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
		9-10	1,080	400	1,090	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
AH-23-3	9/21/2023	0-1	267	-	48	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
		0-1	4,670	-	4,120	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
T-24-2	1/4/2024	2-3	1,840	-	1,700	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
	1, 1, 2021	3-4	2,950	-	2,440	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
		5-5.5	1,660	-	768	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
AH-23-4	9/21/2023	0-1	369	-	32	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
AH-23-5	9/21/2023	0-1	1560	-	928	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
AI1-23-3	5/21/2025	2-3	4950	-	3,760	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
		3-4	3,940	-	4,080	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
T-24-3	1/4/2024	5-6	3,060	-	3,360	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
1-24-5	1/4/2024	6-7	2,420	-	2,400	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
		7-7.5	1,670	-	1,140	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
		8-9	1,620	900	976	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
BH-24-3	1/10/2024	9-10	1,550	600	768	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0		90.7		98.1		90.7	188.8
		10-11	958	400	656	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
AH-23-6	9/21/2023	0-1	284	-	80	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
		0-1	1,950	-	1,090	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
		2-3	1,990	-	1,550	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
T-24-4	1/4/2024	3-4	2,730	-	3,200	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
1-24-4	1/4/2024	5-6	2,420	-	2,240	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
		6-7	2,210	-	1,150	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
		8-8.5	2,060	-	1,380	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
	1/10/2024	9-10	1,280	800	1,120	<0.050		<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
BH-24-4	1/10/2024	10-11	1,170	400	608	<0.050	1	<0.050		<0.050	<0.150		<0.300		<10.0	<	10.0		<10.0		-	<10.0
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# TABLE 2 SUMMARY OF ANALYTICAL RESULTS 2023-2024 ADDITIONAL SOIL ASSESSMENT nAB1715742101 AND nAB1619432451 AND nAB1529948530 CONOCOPHILLIPS WEST BRUSHY 8 FEDERAL SWD #001 EDDY COUNTY, NM

			Field Scr	reening					BTEX <sup>2</sup>					TPH <sup>3</sup>		
		Sample Depth	Resu	ults	Chlor	ide	Benzene	e Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	(GRO+DRO)	Total TPH
			ExStik	Titration			Benzene		Ethylbelizelle			C <sub>6</sub> - C <sub>10</sub>	> C <sub>10</sub> - C <sub>28</sub>	> C <sub>28</sub> - C <sub>36</sub>		(GRO+DRO+EXT DRO)
Sample ID	Sample Date	ft. bgs	ppr	m	mg/kg	Q	mg/kg	Q mg/kg Q	mg/kg Q	mg/kg Q	mg/kg Q	mg/kg Q	mg/kg Q	mg/kg Q	mg/kg	mg/kg
		Reclamation Limit for Soils 0-4' bgs:			<u>600 m</u>	<u>q/kq</u>	<u>10 mg/k</u>	<u>a</u>			<u>50 mg/kg</u>					<u>100 mg/kg</u>
		RRAL for Soils >4' bgs (GW 50-100 ft):			<u>10,000 r</u>	<u>mg/kg</u>	<u>10 mg/k</u>	<u>a</u>			<u>50 mg/kg</u>				<u>1,000 mg/kg</u>	<u>2,500 mg/kg</u>
AH-23-7	9/21/2023	0-1	465	-	48		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
		0-1	2530	-	2,000		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	43.1	<10.0	43.1	43.1
AH-23-8	9/21/2023	2-3	3420	-	2,400		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
		3-4	4380	-	3,600		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
T-5	11/30/2023	0-1	-	-	176		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
AH-23-9	9/21/2023	0-1	468	-	144		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
T-24-6	1/5/2024	0-1	-	-	144		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	211	<10.0	211	211
1-24-0	1/5/2024	1-2	404	-	48		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.2	<10.0	11.2	11.2
		0-1	4,520	-	2,000		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
		2-3	-	-	4,280		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
T-24-7	1/5/2024	3-4	-	-	1,800		<0.050	<0.050	<0.050 GC-NC	0.271 GC-NC1	<0.300	21.2	45.9	<10.0	67.1	67.1
		5-6	669	-	80		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
		6-7	407	-	80		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
AH-23-10	9/21/2023	0-1	580	-	320		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
AH-23-11	9/21/2023	0-1	416	-	80		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
АП-25-11	9/21/2025	2-3	353	-	96		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
AH-23-12	9/21/2023	0-1	792	-	240		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
AH-23-13	9/21/2023	0-1	216	-	48		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
AH-23-14	9/21/2023	0-1	198	-	16		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
АП-25-14	9/21/2025	2-3	286	-	80		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
AH-23-15	9/21/2023	0-1	392	-	64		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
AH-23-16	11/30/2023	0-1	379	-	160		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
AH-23-17	11/30/2023	0-1	-	-	192		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
		3-4	1,750	-	1,140	QM-07	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
T-24-5	1/4/2024	5-6	1,770	-	736		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
		6-7	1,040	-	800		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
		0-1	1,510	-	496		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
T-24-8	1/5/2024	2-3	1,110	-	464		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
		3-4	469	-	80		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
T 34 0	1/5/2024	0-1	857	-	80		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
T-24-9	1/5/2024	2-3	415	-	80		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
T 24 10	1/5/2024	0-1	1,140	-	640		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
T-24-10	1/5/2024	2-3	310	-	112		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	<10.0
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# TABLE 2 SUMMARY OF ANALYTICAL RESULTS 2023-2024 ADDITIONAL SOIL ASSESSMENT nAB1715742101 AND nAB1619432451 AND nAB1529948530 CONOCOPHILLIPS WEST BRUSHY 8 FEDERAL SWD #001 EDDY COUNTY, NM

			Field Scr	eening							BTEX <sup>2</sup>								TPH <sup>3</sup>			
		Sample Depth	Resu	lts	Chlorid	de	Downey		Taluar		<b>Ethulkensens</b>	Total Vu			GRO	)	DRO		EXT DI	RO		Total TPH
			ExStik	Titration			Benzei	ne	Toluer	ne	Ethylbenzene	Total Xy	lenes	Total BTEX	C <sub>6</sub> - C	10	> C <sub>10</sub> - C	28	> C <sub>28</sub> -	C <sub>36</sub>	(GRO+DRO)	(GRO+DRO+EXT DRO)
Sample ID	Sample Date	ft. bgs	ppr	n	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg Q	mg/kg	Q	mg/kg Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg
		Reclamation Limit for Soils 0-4' bgs:			<u>600 mg/</u>	/ <u>kg</u>	<u>10 mg/</u>	<u>′kq</u>						<u>50 mg/kg</u>								<u>100 mg/kg</u>
		RRAL for Soils >4' bgs (GW 50-100 ft):			<u>10,000 m</u>	<u>q/kq</u>	<u>10 mg/</u>	<u>'kq</u>						<u>50 mg/kg</u>							<u>1,000 mg/kg</u>	<u>2,500 mg/kg</u>
		0-1	1,260	-	784		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
T-24-11	1/5/2024	2-3	2,410	-	1,200		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
		3-4	1,310	-	608		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
		4-5	1,820	600	1,710		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
BH-24-11	1/10/2024	5-6	2,160	800	1,460		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
		8-9	1,300	575	1,070		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
T-24-12	1/5/2024	0-1	536	-	144		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
T 24 12	1/5/2024	0-1	3,690	-	4,000		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
T-24-13	1/5/2024	2-3	248	-	48		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
T 24 14	1/5/2024	0-1	1,030	-	944		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0	QM-07	<10.0		<10.0		-	<10.0
T-24-14	1/5/2024	2-3	252	-	64		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
T 24.45	4/5/2024	0-1	1500	-	1,470		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
T-24-15	1/5/2024	1-2	1,050	-	304		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
		2-3	873	300	272		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
DU 24.45	1/10/2024	3-4	1,230	350	416		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
BH-24-15	1/10/2024	5-6	1,040	200	288		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
		6-7	898	200	352		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
		0-1	2,470	-	2,160		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
T 24.46	4/5/2024	2-3	3,730	-	3,240		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
T-24-16	1/5/2024	3-4	3,390	-	3,040		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
1		5-6	1,940	-	1,010		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
		6-7	1,890	800	1,090		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
		7-8	2,040	600	1,010		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
B-24-16	1/10/2024	8-9	1,690	840	1,020		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
1		9-10	1,470	580	896		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
1		14-15	1,580	400	1,100		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
H-24-1	1/5/2024	0-1	334	-	80		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
H-24-2	1/5/2024	0-1	1,760	-	416		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
H-24-3	1/5/2024	0-1	1,180	-	304		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0
H-24-4	1/5/2024	0-1	310	-	96		<0.050		<0.050		<0.050	<0.150		<0.300	<10.0		<10.0		<10.0		-	<10.0

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

Method SM4500CI-B 1

Method 8021B 2

Method 8015M 3

Bold and italicized values indicate exceedance of proposed RRALs and/or Reclamation Requirements.

QUALIFIERS:

QM-07 The spike recovery was outside of lab established statistical control limits but still within method limits. Data is not adversley affected. GC-NC 8620 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND (not detected at or above the reporting limit).

GC-NC1 8620 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.

# TABLE 3 SUMMARY OF ANALYTICAL RESULTS SOIL REMEDIATION nAB1529948530, nAB1619432451, and nAB1715742101 CONOCOPHILLIPS WEST BRUSHY 8 SWD #001 RELEASE EDDY COUNTY, NEW MEXICO

			Field Screer					BTEX <sup>2</sup>					TPH <sup>3</sup>	
Sample ID	Sample Date	Sample Depth	Field Screen	ling Results	Chloride <sup>1</sup>	Ponzono	Taluana	Ethylhonzono	Total Vulanas	Total BTEX	GRO	DRO	EXT DRO	Total TPH
Sample ID	Sample Date		Chloride	PID		Benzene	Toluene	Ethylbenzene	Total Xylenes	TOLAIDIEX	C <sub>6</sub> - C <sub>10</sub>	> C <sub>10</sub> - C <sub>28</sub>	> C <sub>28</sub> - C <sub>36</sub>	(GRO+DRO+EXT DRO)
		ft bgs	рр	om	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Reclamation Closure C	riteria for Soils 0-4 ft bg	gs:		<u>600 mg/kg</u>	<u>10 mg/kg</u>				<u>50 mg/kg</u>				<u>100 mg/kg</u>
Site RRA	Ls for Soils >4 ft bgs (GV	W >50 ft):			<u>10,000 mg/kg</u>	<u>10 mg/kg</u>				<u>50 mg/kg</u>				<u>2,500 mg/kg</u>
FS-1	7/22/2024	4			320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-2	7/22/2024	4			1,010	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-3	7/22/2024	4			2720	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-4	7/22/2024	4			2,120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-5	7/22/2024	4			1,800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-6	7/22/2024	4			2,320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-7	7/22/2024	4			992	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-8	7/22/2024	4			2270	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-9	7/22/2024	4			2080	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-10	7/22/2024	4			1660	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-11	7/22/2024	4			720	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-12	7/22/2024	4			4120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-13	7/22/2024	4			384	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-14	7/26/2024	4			1170	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-15	7/26/2024	4			832	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-16	7/26/2024	4			1040	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-17	7/26/2024	4			1020	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-18	7/31/2024	1			48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-19	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-20	7/31/2024	1			<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-21	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-22	7/26/2024	1			192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-23	7/26/2024	1			192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-24	7/26/2024	1			176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-25	8/5/2024	4			832	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-26	8/5/2024	1			112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-27	7/26/2024	1			224	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-28	7/26/2024	1			192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-29	7/26/2024	1			176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
FS-30	7/26/2024	1			208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-31	7/26/2024	1			160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.4	<10.0	10.4
FS-32	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-33	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-

# TABLE 3 SUMMARY OF ANALYTICAL RESULTS SOIL REMEDIATION nAB1529948530, nAB1619432451, and nAB1715742101 CONOCOPHILLIPS WEST BRUSHY 8 SWD #001 RELEASE EDDY COUNTY, NEW MEXICO

								<b>BTEX</b> <sup>2</sup>					TPH <sup>3</sup>	
Sample ID	Sample Date	Sample Depth	Field Screer	ing Results	Chloride <sup>1</sup>	Ponzono	Toluene	Ethylhonzono	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Total TPH
Sample ID	Sample Date		Chloride	PID		Benzene	Toluene	Ethyibenzene	Total Aylenes	TOLAI DIEA	C <sub>6</sub> - C <sub>10</sub>	> C <sub>10</sub> - C <sub>28</sub>	> C <sub>28</sub> - C <sub>36</sub>	(GRO+DRO+EXT DRO)
		ft bgs	рр	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
F	Reclamation Closure Cr	iteria for Soils 0-4 ft bg	s:		<u>600 mg/kg</u>	<u>10 mg/kq</u>				<u>50 mg/kg</u>				<u>100 mg/kg</u>
Site RRAL	s for Soils >4 ft bgs (GV	V >50 ft):			<u>10,000 mg/kg</u>	<u>10 mg/kq</u>				<u>50 mg/kg</u>				<u>2,500 mg/kg</u>
FS-34	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-35	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-36	7/31/2024	1			64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-37	7/31/2024	1			80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-38	7/31/2024	1			48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-39	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-40	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-41	7/31/2024	1			64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-42	7/31/2024	1			48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-43	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-44	7/31/2024	1			16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-45	7/31/2024	1			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-46	7/31/2024	1			16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-47	7/31/2024	4			1490	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-48	7/31/2024	4			1100	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-49	7/31/2024	4			1100	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-50	7/31/2024	4			1170	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
FS-51	7/31/2024	4			1230	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
NSW-1	7/22/2024	-			128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
NSW-2	7/26/2024	-			384	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
NSW-3	7/31/2024	-			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
NSW-4	7/31/2024	-			64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
NSW-5	7/31/2024	-			64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
SSW-1	7/22/2024	-			208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
SSW-2	7/26/2024	-			480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
SSW-3	7/31/2024	-			16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
SSW-4	7/31/2024	-			16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
WSW-1	7/22/2024	-			144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
WSW-2	7/22/2024	-			160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
WSW-3	7/22/2024	-			640	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
WSW-3 (1')	7/26/2024	-			336	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
WSW-4	7/26/2024	-			176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-

# TABLE 3 SUMMARY OF ANALYTICAL RESULTS SOIL REMEDIATION nAB1529948530, nAB1619432451, and nAB1715742101 CONOCOPHILLIPS WEST BRUSHY 8 SWD #001 RELEASE EDDY COUNTY, NEW MEXICO

			Field Screen	ing Posults				BTEX <sup>2</sup>					TPH <sup>3</sup>	
Sample ID	Sample Date	Sample Depth	Field Screen	ing results	Chloride <sup>1</sup>	Benzene	Toluene	Ethylbonzono	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Total TPH
Sample ID	Sample Date		Chloride	PID		Delizene	Toluelle	Ethylbelizelle	Total Aylelles	TOLAIDIEA	C <sub>6</sub> - C <sub>10</sub>	> C <sub>10</sub> - C <sub>28</sub>	> C <sub>28</sub> - C <sub>36</sub>	(GRO+DRO+EXT DRO)
		ft bgs	рр	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Reclamation Closure Cr	iteria for Soils 0-4 ft bg	şs:		<u>600 mg/kg</u>	<u>10 mg/kq</u>				<u>50 mg/kg</u>				<u>100 mg/kg</u>
Site RRAI	s for Soils >4 ft bgs (GV	V >50 ft):			<u>10,000 mg/kg</u>	<u>10 mg/kq</u>				<u>50 mg/kg</u>				<u>2,500 mg/kg</u>
WSW-5	7/31/2024	-			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
ESW-1	7/22/2024	-			48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
ESW-2	7/22/2024	-			80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
ESW-3	7/22/2024	-			144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
ESW-4	7/26/2024	-			176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
ESW-5	7/31/2024	-			32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
ISW-1	7/26/2024	-			368	<0.050	0.124	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
ISW-2	8/1/2024	-			624	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.1	<10.0	12.1
ISW-2 (1')	8/5/2024	-			96.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
ISW-3	8/1/2024	-			720	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.2	<10.0	17.2
ISW-3 (1')	8/5/2024	-			112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-

NOTES:

ft Feet

Below ground surface bgs

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

Gasoline range organics GRO

DRO Diesel range organics

Method SM4500Cl-B 1

2 Method 8021B

3 Method 8015M Bold and italicized values indicate exceedance of proposed Remediation RRALs and/or Reclamation Requirements. Gold highlight represents soil horizons that were removed during deepening of excavation floors.

Green highlight represents soil horizons that were removed during horizontal expansion of excavation sidewalls.

\* These iterative samples are located to encompass the original sample location that triggered removal, with further excavation in each area indicated in ().

\*\* These sample results are below the Site RRALs, but are elevated above the Merchant SUCA requirements.

\*\*\* These samples were collected outside of the excavation extents as additional delineation points.

# TABLE 4 SUMMARY OF ANALYTICAL RESULTS SOIL BACKFILL - R360 RED BLUFF FACILITY CONOCOPHILLIPS WEST BRUSHY 8 SWD #001 EDDY COUNTY, NEW MEXICO

								BTEX	2								Т	PH <sup>3</sup>		
Sample ID	Sample Date	Chlorid	e1	Benzei		Toluer		Ethylben		Total Xyle		Total BT	-EV	GRO		DRO		EXT DR	RO	Total TPH
Sample ID	Sample Date			benzer	ie	roluer	le	Ethylben	tene	TOTAL AVI	enes	TOTALD	EA	C <sub>6</sub> - C <sub>1</sub>	0	> C <sub>10</sub> - C	-28	> C <sub>28</sub> - 0	C <sub>36</sub>	(GRO+DRO+EXT DRO)
		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
BACKFILL - COMPOSITE	8/22/2024	128		<0.025		<0.050		<0.050		<0.150		<0.2.75		<10.0		<10.0		<10.0		-

NOTES:

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

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Received by OCD: 8/29/2024 5:49:31 PM

# APPENDIX A C-141 Forms

ARTESIA DISTRICT

•

District I		State of	New Mexico	A	RTESIA DISTR	ICT	T
1625 N. French Dr., Hobbs, N District II		Energy Minerals	and Natural Res	ources	JUN 0120	17 r	Form C-141 evîsed August 8, 2011
811 S. First St., Artesia, NM I District III	38210	Oil Conse	rvation Divisio		Submit I Copy t	o appropria	te District Office in
1000 Rio Brazos Road, Aztec District IV	, NM 87410		h St. Francis Di	•	RECEIVE	ordance wit	te District Office in th 19.15.29 NMAC.
1220 S. St. Francis Dr., Santa	Fe, NM 87505		e, NM 87505	•	1		
	Dolog	se Notificatio		otivo Aoti	<u></u>		,
DODICITOU		ise nouncatio					_
NAB171574		110 11/11/	OPERATOR			Report	Final Report
Name of Company: Address: 600 West	COG Operatin Illinois Avenue, Midl		Contact: Telephone No.		Robert McNei 432-683-7443		······································
Facility Name: West B				SWD	432-083-7445		
			f			20.0	
Surface Owner:	Federal	Mineral Owner:			API No.	0-06	15-31675
			N OF RELEA				<u> </u>
Unit Letter Section A 08	Township Range 26S 29E	Fect from the North	h/South Line Fee North	from the Ea	ast/West Line East		County Eddy
		Latitude 32.06303	7 Longitude -10	3.997621			
			COF RELEAS				
Type of Release:			Volume of Relea		Volume R	ecovered:	
	Produced Water			bbls		20 b	
Source of Release:	Flowline		Date and Hour o May 27, 20	f Occurrence: 117 4:00 pm		lour of Disc Aay 27, 201	
Was Immediate Notice G			If YES, To Who	m?			
		No 🗌 Not Required			MOCD / Shelly	Tucker - B	LM
By Was a Watercourse Reac	Whom? Rebecca Haske	<u>II</u>	Date and Hour: N				
was a watercourse Keac	nea? □ Yes ⊠	No	If YES, Volume	impacting the v	watercourse.		
If a Watercourse was Im							
	acted, Describer any.						
Describe Cause of Proble	m and Remedial Action	Taken *				• <u></u>	
The release was due to a Describe Area Affected a			e fitting was replaced			- <u></u>	
Describe Area Affected	and Cleanup Action Take	n.*					
The release was within a							
any possible impact from activities.	the release and we will	present a remediation v	work plan to the NM	OCD for approv	val prior to any s	significant r	emediation
I hereby certify that the i							
regulations all operators							
public health or the envir should their operations h	conment. The acceptance ave failed to adequately i	e of a C-141 report by t investigate and remedia	he NMOCD marked ate contamination the	as "Final Repoi at nose a threat t	rt" does not relie to ground water.	eve the oper	ator of flability
or the environment. In a	ddition, NMOCD accept	ance of a C-141 report	does not relieve the	operator of resp	onsibility for co	mpliance w	ith any other
federal, state, or local law	vs and/or regulations.				DVATION	DIVIDIC	
Signature: Keble	ca Hashell	_		IL CONSE	<u>RVATION</u>		
	n.t				(1, 0A	$\frac{1}{1}$	$1_{\lambda})_{0\lambda}$
Printed Name:	Rebecca Haskell		Approved by Envir	ronmental Speci	ialist MO		
Title:	Senior HSE Coordir	nator	Approval Date:	0617	Expiration I	Date: N	14
E-mail Address:	maskell@concho.co	m	Conditions of App	roval:	. 1		-
		<u></u>	501	attal	her	Attached	A
Date: June 1, 2017	Phone: 432-683-			vinc	· · · ·	1	
Attach Additional She	•	ms can be found state Website	in the			1	NP-4240
	Now for	ns can be lound	in forms:			V	11
	New Mexic	ms can be found o State Website	nm.us/				
	http://w	o State Website <u>ww.emnrd.state.r</u> DCD/forms.html					
	112	CD/TOTILISHEE	-				

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 6/1/17 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number  $\frac{\partial RP - 4246}{\partial L}$  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 7/1/17. 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 Received by OCD: 8/29/2024 5:49:31 PM Form C-141 State of New Mexico

Oil Conservation Division

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Incident ID	
District RP	
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?	(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 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.

Received by OCD: 8/29/2024	4 5:49:31 PM State of New Mexico			Page 32 of 212
			Incident ID	
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
regulations all operators are republic health or the environmediated to adequately investigat addition, OCD acceptance of a and/or regulations. Printed Name: Signature:	nation given above is true and complete to the equired to report and/or file certain release noti ent. The acceptance of a C-141 report by the C is and remediate contamination that pose a thre a C-141 report does not relieve the operator of	ifications and perform co DCD does not relieve the eat to groundwater, surfa responsibility for comp Title: Date:	orrective actions for rele e operator of liability sh ace water, human health liance with any other fe	eases which may endanger nould their operations have a or the environment. In ederal, state, or local laws
OCD Only				
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# **Remediation Plan**

<u>Remediation Plan Checklist</u> : Each of the following items must be	included in the plan.	
<ul> <li>Detailed description of proposed remediation technique</li> <li>Scaled sitemap with GPS coordinates showing delineation points</li> <li>Estimated volume of material to be remediated</li> <li>Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> </ul>		
Proposed schedule for remediation (note if remediation plan time		
<b>Deferral Requests Only:</b> Each of the following items must be conj	irmed as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around prodeconstruction.	duction equipment where remediation could cause a major facility	
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health,	the environment, or groundwater.	
I hereby certify that the information given above is true and complete		
rules and regulations all operators are required to report and/or file co which may endanger public health or the environment. The acceptan		
liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a	and remediate contamination that pose a threat to groundwater,	
responsibility for compliance with any other federal, state, or local la		
Printed Nai	Title:	
Signature: 1475	Date:	
email:	Telephone:	
<u>OCD Only</u>		
Received by:	Date:	
Approved Approved with Attached Conditions of A	Approval Denied Deferral Approved	
Signature:		

Oil Conservation Division

Incident ID	
District RP	
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.

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	<b><u>Closure Report Attachment Checklist</u></b> : Each of the following items must be include	led in the closure report.
must be notified 2 days prior to liner inspection)       In the data of the data data of the data of the data of the data of the data	A scaled site and sampling diagram as described in 19.15.29.11 NMAC	
Description of remediation activities      Increduction of report and/or file certain release on the post of my knowledge and understand that pursuant to OCD rules     and regulations and operators are required to report and/or file certain release on the post of 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 Nam		
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 Nam	Laboratory analyses of final sampling (Note: appropriate ODC District office mus	st be notified 2 days prior to final sampling)
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 Nam	Description of remediation activities	
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 Nam		
email:	and regulations all operators are required to report and/or file certain release notification may endanger public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate contaminate human health or the environment. In addition, OCD acceptance of a C-141 report does compliance with any other federal, state, or local laws and/or regulations. The responsion restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed accordance with 19.15.29.13 NMAC including notification to the OCD when reclamating the printed Name in the text of text of text of text of text of the text of	ns and perform corrective actions for releases which he OCD does not relieve the operator of liability on that pose a threat to groundwater, surface water, not relieve the operator of responsibility for ble party acknowledges they must substantially prior to the release or their final land use in on and re-vegetation are complete.
OCD Only	Signature: Date:	
	email: Telephone:	
	OCD Only	
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:	Closure Approved by: Date:	
Printed Name: Title:	Printed Name: Title:	

# APPENDIX B Site Characterization

# OCD - Land Ownership



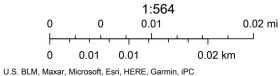
9/26/2023, 10:14:09 AM

Mineral Ownership

Land Ownership

BLM

A-All minerals are owned by U.S.



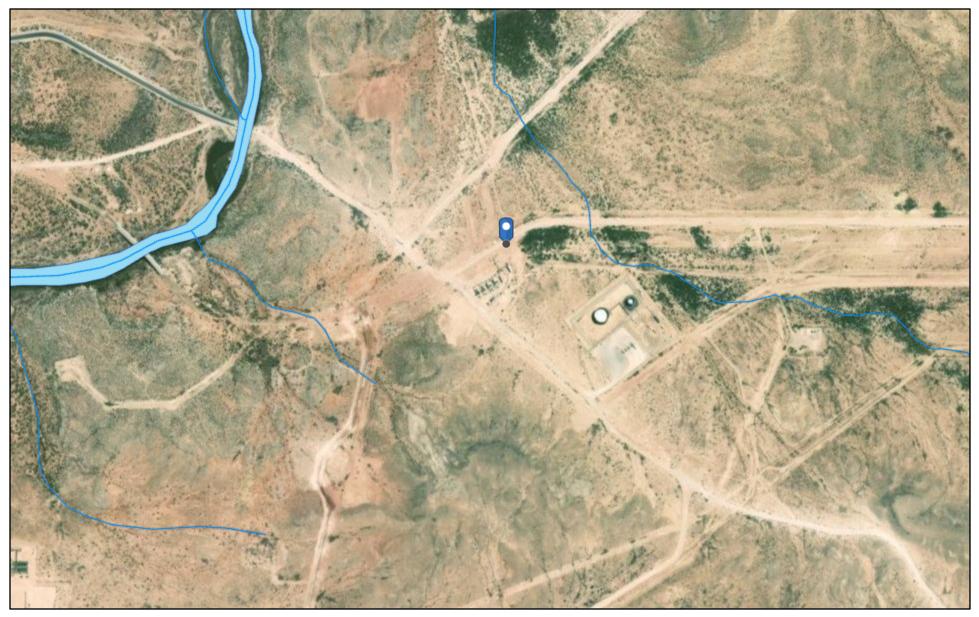
New Mexico Oil Conservation Division

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**Released to Imaging: 9/6/2024 10:33:04 AM** 

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

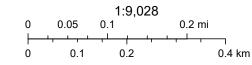
### **OCD** Waterbodies



1/25/2024, 9:30:55 AM

OSW Water Bodys

**OSE** Streams



New Mexico Oil Conservation Division

Esri, HERE, Garmin, iPC, Maxar, NM OSE

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NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

# Received by OCD: 8/29/2024 5:49:31,PM National Flood Hazard Layer FIRMette



### Legend

104°0'10"W 32°4'4"N SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) Zone A. V. A9 With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS **Regulatory Floodway** 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D Zone A NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs **OTHER AREAS** Area of Undetermined Flood Hazard Zone D GENERAL - - - Channel, Culvert, or Storm Sewer STRUCTURES | IIIII Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation AREA OF MINIMAL FLOOD HAZARD Eddy County Coastal Transect \_ \_ Base Flood Elevation Line (BFE) 350120 Limit of Study Jurisdiction Boundary --- Coastal Transect Baseline OTHER Profile Baseline 35015C1850D 35015C1875 FEATURES **Hydrographic Feature** eff. 6/4/2010 **Digital Data Available** No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location. This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/26/2023 at 10:39 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers,

1,500 Releas220 Im22ing: 9/6/2024 10.93:04 AM

Feet 2,000

1:6,000

103°59'33"W 32°3'33"N

Basemap Imagery Source: USGS National Map 2023

FIRM panel number, and FIRM effective date. Map images for

unmapped and unmodernized areas cannot be used for

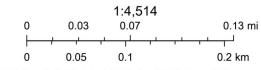
regulatory purposes.

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9/26/2023, 10:23:19 AM Karst Occurrence Potential

Medium



New Mexico Oil Conservation Division

BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, iPC, Maxar, BLM

**Released to Imaging: 9/6/2024 10:33:04 AM** 

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

# 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)	(0	•					2=NE 3 st to larg	s=SW 4= gest)		D83 UTM in me	ters)	(	In feet)	
POD Number	POD Sub- Code basin C	ounty	Q 64			Sec	Tws	Rng		x	Y	Distance		Depth Water	Water Column
C 03507 POD1	С	ED	1	3	3	05	26S	29E	5930	64	3548313 🌍	1611	140	78	62
C 03508 POD1	С	ED	1	3	3	05	26S	29E	5930	63	3548361 🌍	1624	140	75	65
											Avera	ge Depth to	Water:	76	feet
												Minimum	Depth:	75	feet
												Maximum	Depth:	78	feet
Record Count: 2															

UTMNAD83 Radius Search (in meters):

Easting (X): 594622.15

Northing (Y): 3547903.47

Radius: 1700

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 Regulatory Correspondence

### Chama, Sam

From:	OCDOnline@state.nm.us
Sent:	Wednesday, January 31, 2024 9:00 AM
То:	Llull, Christian
Subject:	The Oil Conservation Division (OCD) has approved the application, Application ID: 309139

### A CAUTION: This email originated from an external sender. Verify the source before opening links or attachments. A

To whom it may concern (c/o Christian Llull for COG OPERATING LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAB1715742101, with the following conditions:

- Remediation plan approved. Sidewall confirmation samples in the immediate vicinity of any pressurized lines must be collected. Confirmation bottom and sidewall samples representative of no more than 400 square feet is approved.
- A complete and accurate remediation closure report will need to be submitted by April 30, 2024.

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Brittany Hall Projects Environmental Specialist - A 505-517-5333 Brittany.Hall@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

From:	Hall, Brittany, EMNRD
То:	Abbott, Sam; Enviro, OCD, EMNRD
Cc:	Llull, Christian
Subject:	RE: [EXTERNAL] Extension Request - West Brushy 8 Federal SWD #001 Remediation (Incident IDs nAB1715742101 and nAB1619432451)
Date:	Wednesday, May 1, 2024 8:37:44 AM
Attachments:	image001.png image002.png image003.png image004.png image005.png

Sam,

The extension request is approved. This will be the final extension approved for nAB1715742101 and nAB1619432451. The new due date is July 30, 2024.

Please include a copy of this email in the remediation closure reports for nAB1715742101 and nAB1619432451.

Thank you, **Brittany Hall** Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 E05 E17 E222 | Drittony Holl@amond.amo

505.517.5333 | Brittany.Hall@emnrd.nm.gov http://www.emnrd.nm.gov/ocd/

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at <a href="https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/">https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/</a> or <a href="https://www.emnrd.nm.gov/ocd/ocd-forms/">https://www.emnrd.nm.gov/ocd/ocd-forms/</a>.

From: Abbott, Sam <Sam.Abbott@tetratech.com>
Sent: Tuesday, April 30, 2024 3:30 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Llull, Christian <Christian.Llull@tetratech.com>; Hall, Brittany, EMNRD
<Brittany.Hall@emnrd.nm.gov>
Subject: [EXTERNAL] Extension Request - West Brushy 8 Federal SWD #001 Remediation (Incident IDs nAB1715742101 and nAB1619432451)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom it May Concern,

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until July 30, 2024) to complete remedial activities and associated reporting for the **West Brushy 8 Federal SWD #001** combined release (Incident IDs nAB1715742101 and nAB1619432451).

The remediation action plan was approved separately for each of the 2 release incidents on January 1, 2024. The plans were sent to the BLM for concurrence. In an email dated February 29, 2024, Shelly Taylor of the BLM wrote via email that a full archeological survey is required at the site.

The archeological field survey was completed by SWCA on behalf of Tetra Tech and ConocoPhillips on April 9, 2024. Due to the scope of the survey and associated reporting required by the BLM, the survey report is still in draft and is anticipated to be submitted to the BLM by May 9, 2024.

The remedial action will commence upon final approval by the BLM.

Thank you in advance. Sam

Samantha Abbott, PG | Project Manager Direct Mobile +1 (512) 739-7874 | Business +1 (512) 338-1667 | Sam.Abbott@tetratech.com

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From:	Taylor, Shelly J
To:	Abbott, Sam
Cc:	Llull, Christian
Subject:	Re: [EXTERNAL] RE: WEST BRUSHY 8 FEDERAL SWD #001 Release - nAB1619432451 - Remediation Work Plan
Date:	Wednesday, June 26, 2024 10:32:13 AM
Attachments:	image001.png
	image002.png
	image004.png
	image005.png
	image011.png
	image012.png
	image013.png
	image014.png
	image015.png
	image016.png
	Outlook-v2hu0l1w.png

BLM approves for you to proceed with remedial actions.

Respectfully, Shelly J Taylor

Assistant Field Manager Lands & Minerals - Acting

Bureau of Land Management Pecos District/Roswell Field Office 2909 W 2<sup>nd</sup> St Roswell, NM 88201

Direct 575.627.0250 Mobile 575.200.0614 sjtaylor@blm.gov



From: Abbott, Sam <Sam.Abbott@tetratech.com>
Sent: Tuesday, June 25, 2024 2:43 PM
To: Taylor, Shelly J <sjtaylor@blm.gov>
Cc: Llull, Christian <Christian.Llull@tetratech.com>
Subject: RE: [EXTERNAL] RE: WEST BRUSHY 8 FEDERAL SWD #001 Release - nAB1619432451 Remediation Work Plan

Good afternoon Shelly,

I am writing to follow up on this Remediation Work Plan conditional approval. We hope to begin this remediation project on Monday, July 1<sup>st</sup>, and continue through most of July.

Tetra Tech subcontracted SWCA to complete the archeological survey in April 2024. The attached report (redacted) was submitted to the BLM and NMCRIS by SWCA.

If subsurface cultural materials are encountered during remediation, all work should cease, and the BLM will be notified immediately. No work will be performed within 100 feet of the known site (LA 66112).

Can you confirm that Tetra Tech and ConocoPhillips are cleared to proceed with the proposed work without the presence of a cultural monitor?

Thank you,

Sam

Samantha Abbott, PG | Project Manager Direct Mobile +1 (512) 739-7874 | Business +1 (512) 338-1667 | Sam.Abbott@tetratech.com

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From: Taylor, Shelly J <sjtaylor@blm.gov>
Sent: Thursday, February 29, 2024 1:23 PM
To: Llull, Christian <Christian.Llull@tetratech.com>
Cc: Allen, Samantha <SAMANTHA.ALLEN@tetratech.com>; Abbott, Sam
<Sam.Abbott@tetratech.com>
Subject: Re: [EXTERNAL] RE: WEST BRUSHY 8 FEDERAL SWD #001 Release - nAB1619432451 Remediation Work Plan

You don't often get email from sjtaylor@blm.gov. Learn why this is important

**archeological survey**, a full survey will be required including any areas that will be disturbed in order to access the release area. Based on survey results, an archeological monitor maybe required.

- 5. The release **did not** impact any known archaeological areas based on available data.
- 6. This area **is** located within a **Medium karst zone;** a karst survey **will not be** required.
- 7. This site is located within hydrological feature.
- 8. Site is located within a Special Status Plant Species area.
- 9. The site **is not** located within a wildlife T&E species habitat. No survey will be required.
- 10. Area **is not** located within <u>Shinnery Oak PDO.</u>
- 11. Soils are within the Pajarito-Dune Land
- 12. BLM Seed Mix: #2.
- 13. Area is noted to be within N/A.
- 14. Site **is not** located within a <u>Special Area of concern</u>:
- 15. Site **is not** located within **ACEC**.
- 16. Site **is not** located within a Potash buffer area.

You will be cleared to proceed upon the completion of the archeological survey.

Sincerely,

Shelly J Taylor

Environmental Protection Specialist Realty - Compliance

Bureau of Land Management/Carlsbad Field Office 620 E. Greene St Carlsbad, NM 88220 Direct 575.234.5706 Mobile 575.200.0614 <u>sjtavlor@blm.gov</u>

?

Spill/Release email: BLM\_NM\_CFO\_REALTY\_SPILL@BLM.GOV

From: Taylor, Shelly J <<u>sitaylor@blm.gov</u>>
Sent: Thursday, February 29, 2024 10:11 AM
To: Llull, Christian <<u>Christian.Llull@tetratech.com</u>>
Cc: Allen, Samantha <<u>SAMANTHA.ALLEN@tetratech.com</u>>; Abbott, Sam
<<u>Sam.Abbott@tetratech.com</u>>
Subject: Re: [EXTERNAL] RE: WEST BRUSHY 8 FEDERAL SWD #001 Release - nAB1619432451 -

Remediation Work Plan

Apologies... thought I replied. You are cleared to proceed with remedial activities.

Respectfully,

Shelly J Taylor Assistant Field Manager Lands & Minerals - Acting

Bureau of Land Management Pecos District/Roswell Field Office 2909 W 2<sup>nd</sup> St Roswell, NM 88201

Direct 575.627.0250 Mobile 575.200.0614 sjtaylor@blm.gov

?

From: Llull, Christian <<u>Christian.Llull@tetratech.com</u>>
Sent: Tuesday, February 27, 2024 11:36 AM
To: Taylor, Shelly J <<u>sitaylor@blm.gov</u>>
Cc: Allen, Samantha <<u>SAMANTHA.ALLEN@tetratech.com</u>>; Abbott, Sam
<<u>Sam.Abbott@tetratech.com</u>>
Subject: [EXTERNAL] RE: WEST BRUSHY 8 FEDERAL SWD #001 Release - nAB1619432451 Remediation Work Plan

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Hey Shelly, we are still looking for the BLM response re: these aggregate WPs. Please advise.

Christian

From: Abbott, Sam <<u>Sam.Abbott@tetratech.com</u>>
Sent: Wednesday, February 21, 2024 1:54 PM
To: Llull, Christian <<u>Christian.Llull@tetratech.com</u>>; Tucker, Shelly J <<u>stucker@blm.gov</u>>
Cc: Allen, Samantha <<u>SAMANTHA.ALLEN@tetratech.com</u>>
Subject: RE: WEST BRUSHY 8 FEDERAL SWD #001 Release - nAB1619432451 - Remediation Work

Plan

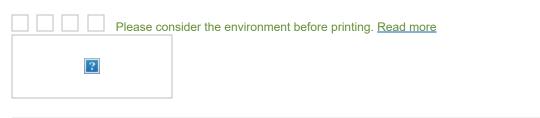
Here is the KML.

Samantha Abbott, PG | Project Manager Direct Mobile +1 (512) 739-7874 | Business +1 (512) 338-1667 | <u>Sam.Abbott@tetratech.com</u>

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From: Abbott, Sam
Sent: Wednesday, February 21, 2024 1:49 PM
To: Llull, Christian <<u>Christian.Llull@tetratech.com</u>>; Tucker, Shelly J <<u>stucker@blm.gov</u>>
Cc: Allen, Samantha <<u>SAMANTHA.ALLEN@tetratech.com</u>>
Subject: RE: WEST BRUSHY 8 FEDERAL SWD #001 Release - nAB1619432451 - Remediation Work
Plan

Attached is a KMZ with the release extent, assessment sampling locations, and proposed remedial extents. Mapped utilities are also included.

This is the same remedial action proposed for the other West Brushy 8 Federal SWD #001 release (nAB1715742101).

Samantha Abbott, PG | Project Manager Direct Mobile +1 (512) 739-7874 | Business +1 (512) 338-1667 | Sam.Abbott@tetratech.com

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From: Llull, Christian <<u>Christian.Llull@tetratech.com</u>>

Sent: Wednesday, January 31, 2024 1:23 PM

**To:** Taylor, Shelly J <<u>sjtaylor@blm.gov</u>>

Cc: Abbott, Sam <<u>Sam.Abbott@tetratech.com</u>>; Allen, Samantha

<<u>SAMANTHA.ALLEN@tetratech.com</u>>

Subject: WEST BRUSHY 8 FEDERAL SWD #001 Release - nAB1619432451 - Remediation Work Plan

Shelly:

Attached for your review is the Remediation Work Plan for the West Brushy 8 Federal SWD #001 Release - **nAB1619432451 (DOR 7/3/2016)**.

- This WP has been approved by NMOCD.
- <u>Approval attached.</u>
- There are three similar WPs that you will receive, the remedial action is the same for all 3 sites based on the combined assessment.

WEST BRUSHY 8 FEDERAL SWD #001 Eddy County, NM GPS Coordinates: 32.063500°, -103.997560° Incident ID: nAB1619432451

### BACKGROUND:

- According to the Form C-141, the release was discovered on July 3, 2016.
  - The release consisted of 25 bbls of produced water, of which 0 bbls were recovered.
  - The cause of the release was noted as a damaged poly flowline.
- BBC conducted a site assessment from January 2017.
  - Soil samples were collected from twelve (12) locations within the extent of the release and four (4) locations along the perimeter of the extent.
  - A total of forty-three (43) soil samples were collected from the sixteen (16) sampling locations and submitted to Cardinal Laboratories in Hobbs, New Mexico (Cardinal) for analysis.
  - Analytical results were above the reclamation limit for chloride (600 mg/kg) in surface (0-4 feet bgs) soils at eight (8) of the sampling locations (SP5 through SP12).
- A Delineation Workplan was prepared by BBC based on the results of the 2017 BBC assessment activities.
  - A copy of the approved remediation proposal Mr. Bratcher refers to in an email from February 22, 2018, could not be located.
- A Closure Report for four separate releases that occurred at the West Brushy 8 Federal SWD #001 Site, including Incident nAB1619432451, was rejected by NMOCD on May 1, 2023, with the following comments:
  - "Email correspondence provided by operator stated that an email dated 2/22/2018 an email from OCD personnel stated "2RP-3353 and 2RP-3774 releases cover basically the same area and have approved remediation proposals". Based on the information found under 2RP-3353 (NAB1529948530) closed was not approved in 2016.
  - The closure report is not clear as to what activities occurred for remediation of

#### this site.

- Submit a complete report though the OCD Permitting website by 8/1/2023.
- 2RP-3774 closed. Refer to incident #NAB1619432451 in all future communication."

### ADDITIONAL ASSESSMENT:

- Tetra Tech personnel were onsite to conduct additional assessment sampling on September 21, 2023.
  - Fifteen (15) hand auger borings (AH-23-1 through AH-23-15) were installed to depths ranging from 1 to 4 feet bgs in a cross-section pattern across the release extent.
- Tetra Tech remobilized to the site on November 30, 2023, and January 4-5, 2024, and January 10, 2024, to achieve delineation.
  - Two (2) soil trenches (T-1 and T-5) and two (2) hand auger borings (AH-23-16 and AH-23-17) were installed in the northern drainage area.
  - Sixteen (16) soil trenches (T-24-1 through T-24-16) and four (4) hand auger borings (H-24-1 through H-24-4) were installed near the release area.
  - Six (6) borings with an air rotary drill rig were installed near the release area.
  - A total of ninety-seven (97) soil samples were collected analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8261B.
  - Analytical results associated with the 0–1-foot bgs soil interval at trench location T-24-6 exceeded the reclamation limit of 100 mg/kg for TPH.
  - Chloride concentrations were detected in surface soils (0-4 feet bgs) at levels above the reclamation limit of 600 mg/kg at seventeen (17) of the sample locations.

### WORK PLAN:

Based on the analytical results from the assessment, impacted material within the release extent is proposed to be removed to a maximum depth of 4'.

- The total proposed volume to be removed and disposed of is 1,920 cubic yards.
- Confirmation floor samples and confirmation sidewall samples will be collected for verification of remedial activities.
  - Confirmation sidewall and floor samples will be representative of no more than approximately 400 square feet of excavated area.
- Once acceptable confirmation sample results are received the excavation will then be backfilled with clean material to surface grade.
- The seed mixture for LPC Sand/Shinnery Sites will be used for seeding.
- Remediation activities at the Site are proposed to begin within **120** days.

Let me know what you think,

Christian

Christian Llull, P.G. | Program Manager Mobile +1 (512) 565-0190 | <u>christian.llull@tetratech.com</u>

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From:	Hall, Brittany, EMNRD
То:	Abbott, Sam
Cc:	Llull, Christian; Enviro, OCD, EMNRD; Bratcher, Michael, EMNRD
Subject:	RE: [EXTERNAL] Extension Request - West Brushy 8 Federal SWD #001 Remediation (Incident IDs nAB1715742101 and nAB1619432451)
Date:	Tuesday, July 30, 2024 2:26:14 PM
Attachments:	image001.png image002.png image003.png image004.png image005.png

#### Sam,

A final 30-day extension nAB1715742101 and nAB1619432451 is approved. The new due date is August 30, 2024.

Please include a copy of this email in both incidents' next submittals.

#### Thank you,

Brittany Hall ● Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.517.5333 | Brittany.Hall@emnrd.nm.gov http://www.emnrd.nm.gov/ocd/

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at <a href="https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/">https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/</a> or <a href="https://www.emnrd.nm.gov/ocd/ocd-forms/">https://www.emnrd.nm.gov/ocd/ocd-forms/</a>.

From: Abbott, Sam <Sam.Abbott@tetratech.com>
Sent: Tuesday, July 30, 2024 11:23 AM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Enviro, OCD, EMNRD
<OCD.Enviro@emnrd.nm.gov>
Cc: Llull, Christian <Christian.Llull@tetratech.com>
Subject: [EXTERNAL] Extension Request - West Brushy 8 Federal SWD #001 Remediation (Incident IDs nAB1715742101 and nAB1619432451)

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Good morning Brittany,

On behalf of ConocoPhillips, Tetra Tech is requesting a final 30-day extension (until August 30, 2024)

# to complete remedial activities and associated reporting for the West Brushy 8 Federal SWD #001 combined release (Incident IDs nAB1715742101 and nAB1619432451).

The remediation action plan was approved separately for each of the 2 release incidents on January 1, 2024. The plans were sent to the BLM for concurrence. In an email dated February 29, 2024, Shelly Taylor of the BLM wrote via email that a full archeological survey is required at the site. The archeological field survey was completed by SWCA on behalf of Tetra Tech and ConocoPhillips on April 9, 2024. A previous extension request was made on April 30, 2024, while BLM approval of the remedial action was pending.

The remedial action received approval from the BLM on June 26, 2024. Tetra Tech began remedial activities at the Site on behalf of COP on July 10, 2024, following additional coordination with the facility operator and multiple operators of pipelines coinciding with the remedial footprint. The first 5 days of the project were spent daylighting buried pipelines using hydrovac trucks.

The remedial action is ongoing, with confirmation sampling events occurring on July 22<sup>nd</sup>, July 26<sup>th</sup>, and continuing today, July 30<sup>th</sup>, and tomorrow, July 31<sup>st</sup>. More confirmation sampling may be required past July 31<sup>st</sup> depending on excavation progress and initial confirmation sampling results. The attached map and photographs indicate the progress of the remedial action up to present. Remedial extents and confirmation sampling frequency intervals are based on the approved work plans. The remedial action is expected to be completed by the end of next week, and the remediation closure reports will be submitted soon thereafter.

Thank you in advance, Sam

#### Samantha Abbott, PG | Project Manager

Direct Mobile +1 (512) 739-7874 | Business +1 (512) 338-1667 | Sam.Abbott@tetratech.com

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From:	OCDOnline@state.nm.us
To:	Llull, Christian
Subject:	The Oil Conservation Division (OCD) has accepted the application, Application ID: 363485
Date:	Thursday, July 11, 2024 4:25:12 PM

To whom it may concern (c/o Christian LLuLL for COG OPERATING LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1715742101.

The sampling event is expected to take place:

**When:** 07/16/2024 @ 10:00 **Where:** A-08-26S-29E 660 FNL 330 FEL (32.0625267,-103.9986572)

### Additional Information: Contact

Samantha Abbott, PG | Project Manager Direct Mobile +1 (512) 739-7874

### Additional Instructions: WEST BRUSHY 8 FEDERAL SWD #001 Eddy County, NM

GPS Coordinates: 32.063500°, -103.997560°

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• 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.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department** 1220 South St. Francis Drive Santa Fe, NM 87505

From:	Wells Shelly EMNDD
From:	Wells, Shelly, EMNRD
To:	Abbott, Sam
Cc:	Hall, Brittany, EMNRD; Llull, Christian
Subject:	RE: [EXTERNAL] C-141N Variance Request - nAB1715742101
Date:	Friday, August 2, 2024 11:37:13 AM
Attachments:	image001.png
	image002.png
	image003.png
	image004.png
	image005.png

#### Good morning Sam,

A variance to the two business day sampling notice is approved for AB1715742101 WEST BRUSHY 8 FEDERAL SWD #001 for 8/5/24. Please 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<u>|Shelly.Wells@emnrd.nm.gov</u> http://www.emnrd.state.nm.us/OCD/

From: Abbott, Sam <Sam.Abbott@tetratech.com>
Sent: Friday, August 2, 2024 9:58 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Llull, Christian
<Christian.Llull@tetratech.com>
Subject: [EXTERNAL] C-141N Variance Request - nAB1715742101

# CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

I am requesting a variance to continue confirmation sampling outside of the initial notice period with less than 48 hours' notice.

Due to an oversight, two samples that were meant to be collected on 7/31/2024 were not sent to the lab. These samples will be collected and submitted to the lab on Monday, 8/5/2024.

Thank you,

Sam

#### Samantha Abbott, PG | Project Manager

Direct Mobile +1 (512) 739-7874 | Business +1 (512) 338-1667 | Sam.Abbott@tetratech.com

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8911 N Capital of Texas Hwy #2310 | Austin, TX 78759 | tetratech.com

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From: Hall, Brittany, EMNRD <<u>Brittany.Hall@emnrd.nm.gov</u>>

Sent: Monday, July 29, 2024 12:44 PM

To: Abbott, Sam <<u>Sam.Abbott@tetratech.com</u>>; Llull, Christian <<u>Christian.Llull@tetratech.com</u>>;

**Cc:** Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Wells, Shelly, EMNRD

<<u>Shelly.Wells@emnrd.nm.gov</u>>

**Subject:** RE: [EXTERNAL] RE: The Oil Conservation Division (OCD) has accepted the application, Application ID: 363485

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/.

From: Abbott, Sam <<u>Sam.Abbott@tetratech.com</u>> **Sent:** Friday, July 26, 2024 4:22 PM To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>; ocdonline, emnrd, EMNRD <emnrd.ocdonline@emnrd.nm.gov> Cc: Llull, Christian < <u>Christian.Llull@tetratech.com</u>> **Subject:** [EXTERNAL] RE: The Oil Conservation Division (OCD) has accepted the application,

Application ID: 363485

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

I am requesting a variance to continue confirmation sampling outside of the initial notice period. We experienced delays at the beginning of our remedial action due to pipeline daylighting activities and coordination efforts with various pipeline operators.

We initially planned to begin sampling activities on 7/16/2024 at 10 am. Following the delays mentioned, we were not able to begin final confirmation sampling until 7/22/2024. We also collected confirmation samples today, 7/26/2024.

The remediation activities are ongoing, and we will be collecting additional confirmation samples next week, likely on 7/30 and/or 7/31. We will submit an additional C-141N today for the additional sampling planned for next week.

Thank you, Sam

Samantha Abbott, PG | Project Manager Direct Mobile +1 (512) 739-7874 | Business +1 (512) 338-1667 | Sam.Abbott@tetratech.com

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8911 N Capital of Texas Hwy #2310 | Austin, TX 78759 | tetratech.com

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From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, July 11, 2024 4:25 PM
To: Llull, Christian <<u>christian.llull@tetratech.com</u>>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 363485

*Received by OCD: 8/29/2024 5:49:31 PM* 

From:	OCDOnline@state.nm.us
То:	Llull, Christian
Subject:	The Oil Conservation Division (OCD) has accepted the application, Application ID: 367769
Date:	Friday, July 26, 2024 6:19:06 PM

To whom it may concern (c/o Christian LLuLL for COG OPERATING LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAB1715742101.

The sampling event is expected to take place:

**When:** 07/31/2024 @ 10:00 **Where:** A-08-26S-29E 660 FNL 330 FEL (32.0625267,-103.9986572)

**Additional Information:** Additional information: sampling previously collected on 7/22 and 7/26. Sampling may continue through 8/1. Please contact Samantha Abbott, PG / Project Manager at 512-739-7874

Additional Instructions: Navigation Info: WEST BRUSHY 8 FEDERAL SWD #001 Eddy County, NM GPS Coordinates: 32.063500°, -103.997560°

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

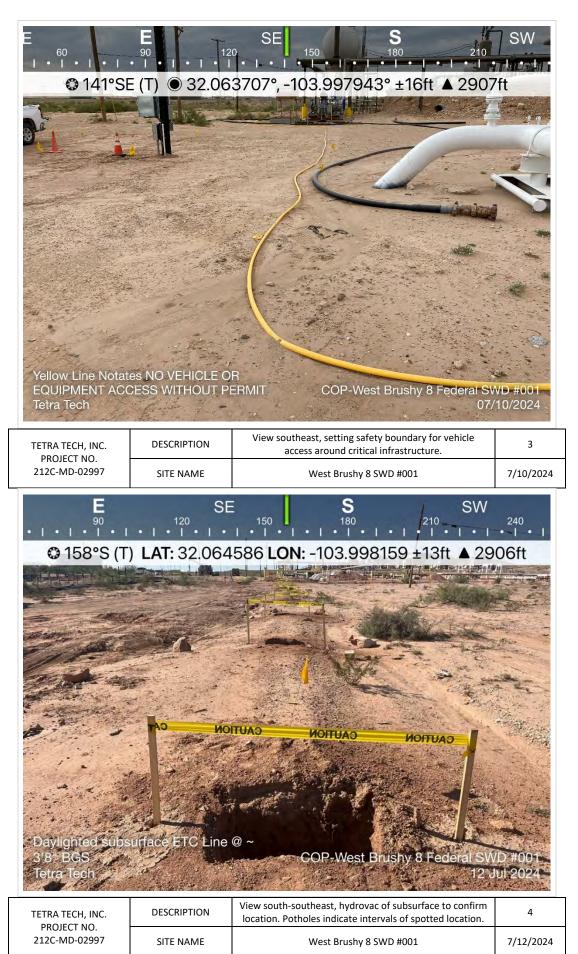
• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

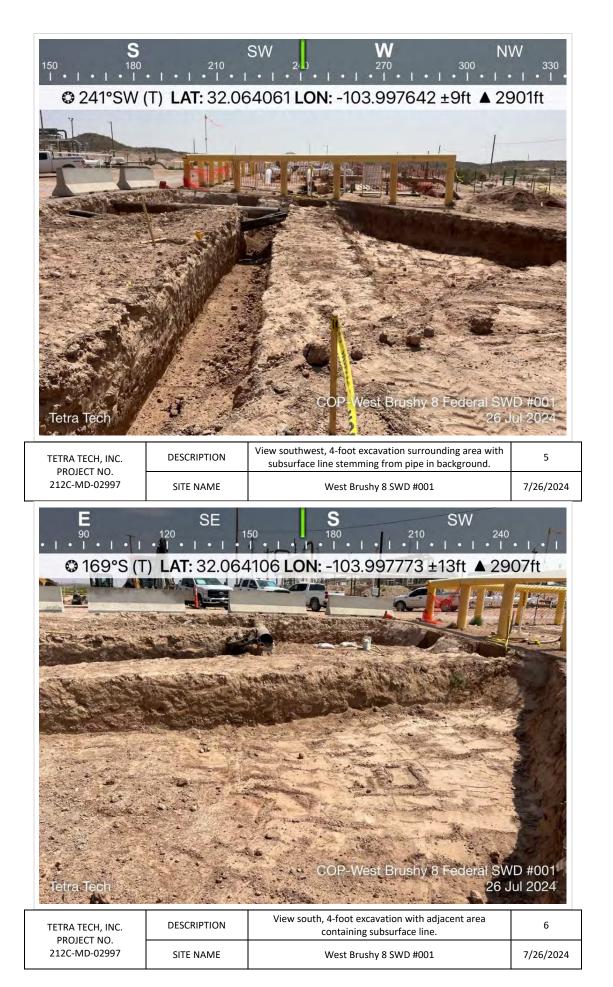
If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department** 1220 South St. Francis Drive Santa Fe, NM 87505

# APPENDIX D Photographic Documentation



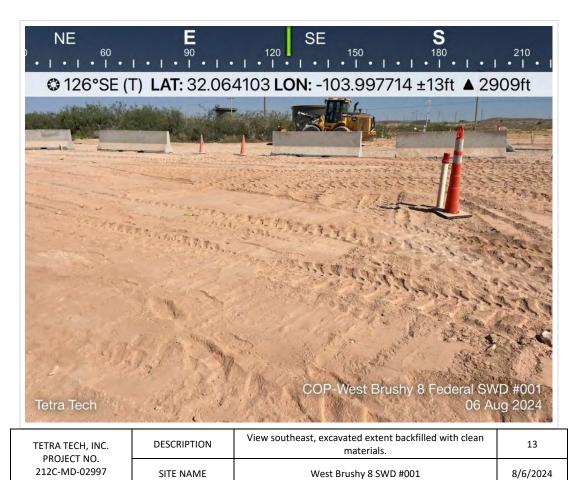












# APPENDIX E Laboratory Analytical Data



July 24, 2024

SAM ABBOTT TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: WEST BRUSHY 8 FED SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 07/23/24 8:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



#### Analytical Results For:

TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: NSW - 1 (H244359-01)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	0						

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: ESW - 1 (H244359-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	113 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: ESW - 2 (H244359-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: ESW - 3 (H244359-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: SSW - 1 (H244359-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	115 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: WSW - 1 (H244359-06)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: WSW - 2 (H244359-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	92.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: WSW - 3 (H244359-08)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: FS - 1 (H244359-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	120 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: FS - 2 (H244359-10)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: FS - 3 (H244359-11)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	119 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: FS - 4 (H244359-12)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: FS - 5 (H244359-13)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	112 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: FS - 6 (H244359-14)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	07/23/2024	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: FS - 7 (H244359-15)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	07/23/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: FS - 8 (H244359-16)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2270	16.0	07/23/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	118 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	129 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: FS - 9 (H244359-17)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	07/23/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: FS - 10 (H244359-18)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	07/23/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: FS - 11 (H244359-19)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	07/23/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	113 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: FS - 12 (H244359-20)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.30	115	2.00	0.404	
Toluene*	<0.050	0.050	07/23/2024	ND	2.42	121	2.00	2.44	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.56	128	2.00	4.58	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	7.68	128	6.00	5.12	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4120	16.0	07/23/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	190	95.2	200	3.32	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	199	99.5	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	117 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/23/2024	Sampling Date:	07/22/2024
Reported:	07/24/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: FS - 13 (H244359-21)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2024	ND	2.00	99.9	2.00	1.74	
Toluene*	<0.050	0.050	07/23/2024	ND	1.98	99.1	2.00	2.47	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.00	99.9	2.00	2.44	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	5.89	98.1	6.00	2.54	
Total BTEX	<0.300	0.300	07/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	07/23/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	ND	180	89.9	200	0.447	
DRO >C10-C28*	<10.0	10.0	07/23/2024	ND	171	85.6	200	0.339	
EXT DRO >C28-C36	<10.0	10.0	07/23/2024	ND					
Surrogate: 1-Chlorooctane	95.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.2	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

### Cardinal Laboratories

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose site to the services interruptors, loss of profits incurred by client, its subsidiaries, afflictes or successor arising out of or related to the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYS'S REQUEST

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Page 26 of 26



July 26, 2024

SAM ABBOTT TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: WEST BRUSHY 8 FED SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 07/24/24 16:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/24/2024	Sampling Date:	07/23/2024
Reported:	07/26/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: ETC-1 (H244412-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2024	ND	1.95	97.4	2.00	6.30	
Toluene*	<0.050	0.050	07/26/2024	ND	1.90	94.9	2.00	6.09	
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	1.90	95.2	2.00	5.46	
Total Xylenes*	<0.150	0.150	07/26/2024	ND	5.67	94.5	6.00	5.09	
Total BTEX	<0.300	0.300	07/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	24						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	07/26/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2024	ND	195	97.7	200	0.931	
DRO >C10-C28*	<10.0	10.0	07/26/2024	ND	184	91.8	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	07/26/2024	ND					
Surrogate: 1-Chlorooctane	75.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.2	% 49.1-14	18						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/24/2024	Sampling Date:	07/23/2024
Reported:	07/26/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: ETC-2 (H244412-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2024	ND	1.95	97.4	2.00	6.30	
Toluene*	<0.050	0.050	07/26/2024	ND	1.90	94.9	2.00	6.09	
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	1.90	95.2	2.00	5.46	
Total Xylenes*	<0.150	0.150	07/26/2024	ND	5.67	94.5	6.00	5.09	
Total BTEX	<0.300	0.300	07/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	07/26/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2024	ND	195	97.7	200	0.931	
DRO >C10-C28*	<10.0	10.0	07/26/2024	ND	184	91.8	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	07/26/2024	ND					
Surrogate: 1-Chlorooctane	83.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.6	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/24/2024	Sampling Date:	07/23/2024
Reported:	07/26/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: ETC-3 (H244412-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2024	ND	1.95	97.4	2.00	6.30	
Toluene*	<0.050	0.050	07/26/2024	ND	1.90	94.9	2.00	6.09	
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	1.90	95.2	2.00	5.46	
Total Xylenes*	<0.150	0.150	07/26/2024	ND	5.67	94.5	6.00	5.09	
Total BTEX	<0.300	0.300	07/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	07/26/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2024	ND	195	97.7	200	0.931	
DRO >C10-C28*	<10.0	10.0	07/26/2024	ND	184	91.8	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	07/26/2024	ND					
Surrogate: 1-Chlorooctane	85.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.0	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/24/2024	Sampling Date:	07/23/2024
Reported:	07/26/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: ETC-4 (H244412-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2024	ND	1.95	97.4	2.00	6.30	
Toluene*	<0.050	0.050	07/26/2024	ND	1.90	94.9	2.00	6.09	
Ethylbenzene*	<0.050	0.050	07/26/2024	ND	1.90	95.2	2.00	5.46	
Total Xylenes*	<0.150	0.150	07/26/2024	ND	5.67	94.5	6.00	5.09	
Total BTEX	<0.300	0.300	07/26/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	07/26/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2024	ND	195	97.7	200	0.931	
DRO >C10-C28*	<10.0	10.0	07/26/2024	ND	184	91.8	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	07/26/2024	ND					
Surrogate: 1-Chlorooctane	92.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

#### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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# Received by OCD: 8/29/2024 5:49:31 PM

e 103 of 212



July 30, 2024

SAM ABBOTT TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: WEST BRUSHY 8 FED SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 07/29/24 9:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/29/2024	Sampling Date:	07/26/2024
Reported:	07/30/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: ESW - 4 (H244486-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/29/2024	ND	464	116	400	7.14	
TPH 8015M	mg	/kg	g Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	71.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.5	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/29/2024	Sampling Date:	07/26/2024
Reported:	07/30/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: WSW - 4 (H244486-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/29/2024	ND	464	116	400	7.14	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	8						

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### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/29/2024	Sampling Date:	07/26/2024
Reported:	07/30/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: FS - 14 (H244486-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	07/29/2024	ND	464	116	400	7.14	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.2	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/29/2024	Sampling Date:	07/26/2024
Reported:	07/30/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

### Sample ID: FS - 15 (H244486-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	07/29/2024	ND	464	116	400	7.14	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	92.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.3	% 49.1-14	8						

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### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/29/2024	Sampling Date:	07/26/2024
Reported:	07/30/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

## Sample ID: FS - 16 (H244486-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	07/29/2024	ND	464	116	400	7.14	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	82.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.6	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/29/2024	Sampling Date:	07/26/2024
Reported:	07/30/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: FS - 17 (H244486-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	07/29/2024	ND	464	116	400	7.14	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	86.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/29/2024	Sampling Date:	07/26/2024
Reported:	07/30/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: WSW - 3 (1') (H244486-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/29/2024	ND	464	116	400	7.14	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.6	% 49.1-14	8						

## Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/29/2024	Sampling Date:	07/26/2024
Reported:	07/30/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

## Sample ID: NSW - 2 (H244486-08)

BTEX 8021B	mg,	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	07/29/2024	ND	464	116	400	7.14	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	99.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/29/2024	Sampling Date:	07/26/2024
Reported:	07/30/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

## Sample ID: SSW - 2 (H244486-09)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	07/29/2024	ND	464	116	400	7.14	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.1	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/29/2024	Sampling Date:	07/26/2024
Reported:	07/30/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

## Sample ID: ISW - 1 (H244486-10)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	0.124	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/30/2024	ND	448	112	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	95.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.1	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/29/2024	Sampling Date:	07/26/2024
Reported:	07/30/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: FS - 22 (H244486-11)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/30/2024	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	80.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.5	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/29/2024	Sampling Date:	07/26/2024
Reported:	07/30/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: FS - 23 (H244486-12)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/30/2024	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	74.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.7	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/29/2024	Sampling Date:	07/26/2024
Reported:	07/30/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

## Sample ID: FS - 24 (H244486-13)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/30/2024	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	84.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.0	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/29/2024	Sampling Date:	07/26/2024
Reported:	07/30/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: FS - 27 (H244486-14)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/30/2024	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	89.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.4	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/29/2024	Sampling Date:	07/26/2024
Reported:	07/30/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

## Sample ID: FS - 28 (H244486-15)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/30/2024	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	91.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/29/2024	Sampling Date:	07/26/2024
Reported:	07/30/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: FS - 29 (H244486-16)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/30/2024	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	205	102	200	0.695	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	186	93.2	200	3.09	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	94.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/29/2024	Sampling Date:	07/26/2024
Reported:	07/30/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: FS - 30 (H244486-17)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/30/2024	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	220	110	200	2.35	
DRO >C10-C28*	<10.0	10.0	07/29/2024	ND	190	94.9	200	4.02	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	97.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/29/2024	Sampling Date:	07/26/2024
Reported:	07/30/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Shalyn Rodriguez
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: FS - 31 (H244486-18)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2024	ND	2.18	109	2.00	9.74	
Toluene*	<0.050	0.050	07/29/2024	ND	2.53	126	2.00	13.0	
Ethylbenzene*	<0.050	0.050	07/29/2024	ND	2.54	127	2.00	14.3	
Total Xylenes*	<0.150	0.150	07/29/2024	ND	7.95	132	6.00	14.8	
Total BTEX	<0.300	0.300	07/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/30/2024	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	ND	220	110	200	2.35	
DRO >C10-C28*	10.4	10.0	07/29/2024	ND	190	94.9	200	4.02	
EXT DRO >C28-C36	<10.0	10.0	07/29/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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# 101 East Marland, Hobbs, NM 88240 aboratories ARDINAL

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

HAHHAR Project Manager: Project #: 2/26-Mi Company Name; Project Name: Sampler Name: Project Location: Relinquished Relinquished By: Sampler - UPS - Bus - Other: FOR LABUSE ONLY Delivered By: (Circle One) Lab I.D. Inchew biscia In no eve 3 west oppio 575) 393-2326 FAX (575) 393-2476 NSW USW SE an ξ ١ 1 Sample I.D. 22 í 5 Chord 126/24 SFUS l 100 ١ ( g C Observed Temp. °C 2 20 Corrected Temp. ENTCIC Project Owner Time 095 Fax #: Date: A-24 Date Time: 27 State: + Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com today Swid UMZip: റ് Britteny ater (G)RAB OR (C)OMP Received By: (ecelved # CONTAINERS GROUNDWATER 井つつ By WASTEWATER Cono Ves Ves Cool Sample Condition . MATRIX × SOIL Intact OIL SLUDGE State: loss of use, or City: P.O. #: OTHER Fax #: Attn: Jun Company Loroca Phone #: Address: ACID/BASE PRESERV CHECKED BY: FICE / COOL 035 01 00 BILL OTHER 1550the letrated within 30 days after Zip DATE 10 26 SAMPLING Phillips ą client, its subsidiaries All Results are emailed. Thermometer ID #140 Correction Factor 0°C Turnaround Time: by the die REMARKS TIME erbal Result 0.000 BIEXEGOR BT 8021B Yes 5M GRD-TRO-DRU-MRC TP Please provide Email address: Standard "hloride 7 ZHIC ANALYSIS 20 Cool Intact Ba eria (only) Sa Intact REQUEST Corrected Temp. °C Observed Temp. mple Condition ô Page 21 of 22

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City:

Address:

Phone #:

	celinquished by:		Relinquished by:	Andrew	Relinquished by:		81	17	16	15	14	13	le le	11	( LABUSE )	B#	" ANTHORN	Inc	Commenter		(county, state)		Priart Name:	Page 125
	٥		D	Garcia 7			FS-31	FS-30	FS-29	FS-28	F5-27	FS-24	FS-23	FS-22		SAMPLE IDENTIFICATION		Include: Andrew.	Cardinal Labs	Attn: Sem. A	didy Lea County, NM	Brushy & Fede	Phillips	Tetra Tech,
	Date: Time:		Date: Time:	125	Date: Time:											FICATION		Gar can e Tetr		bbo TI e Ticha		enal SWD #		Fech, Inc.
ORIGINAL COPY	Received by:	SKO	Received by:				V							7/26	DATE	YEAR 202	SAMPLING	Fetratech.com	Sampler Signature: And re	Tech .	Project#: 2120		Site Manager:	
COPY		DRUC	-				1400	1346-	1330	1300	1245	1230	1200	1145	TIME	4	LING	Com	E	Corr	C-MD-		m Ab	
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	Tale: Time:	4739:	Date: Time:				V				N N			×	HCL HNO3 ICE		PRESERVATIVE		8		17		-1	901 W Wall Street, Ste 100 Midland, Texas 79701 Tel (432) 652-4559 Fax (432) 682-3946
		ad's i			F		1	_	_	_			-	1	# CONT/		-							
(Circle) H	#	Sample temper	2	O	E	1				_		1	10		FILTERE BTEX 80 TPH TX1	21B 005 (	BTE: Ext to					_	Ч	
(Circle) HAND DELIVERED	ક	3.0 Biologiane	1	ONLY ONLY	E			-					_		TPH 801 PAH 827 Total Met TCLP Me	0C als Aç	As Ba	a Cd Cr F	Pb Se H	g			(Circle	
RED FEDEX		Rus	X RUS		REMARKS				_	-					TCLP Vol TCLP Ser RCI	atiles			_		_		ANALY	
DEX UPS	cial Repor	Rush Charges Authorized	RUSH: Same Day							_					GC/MS V GC/MS S PCB's 80	emi. \	/ol. 82						ANALYSIS REQUEST	
Tracking	t Limits o	0	-			-					_	-			NORM PLM (Asb Chloride	estos	)	_	_			_	<b>QUEST</b>	
#	Special Report Limits or TRRP Report	ed (	24 hr 48 h	7	TAT			_			-				Chloride General \ Anion/Ca	Nate			e atta	ched lis	st)		d Mo.1	
	port		hr 72 hr		F											_	_	_		-	_	_		
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August 01, 2024

SAM ABBOTT TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: WEST BRUSHY 8 FED SWD #1R

Enclosed are the results of analyses for samples received by the laboratory on 07/31/24 16:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: NSW - 3 (H244569-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 71.5-13	4						
Chloride, SM4500Cl-B	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	87.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	8						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

## Sample ID: NSW - 4 (H244569-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	106 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

## Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

## Sample ID: NSW - 5 (H244569-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	118 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

## Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: SSW - 3 (H244569-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

# Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: SSW - 4 (H244569-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

## Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

## Sample ID: WSW - 5 (H244569-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	118 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

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## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

## Sample ID: ESW - 5 (H244569-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

## Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: FS - 18 (H244569-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: FS - 19 (H244569-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	118 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

## Sample ID: FS - 20 (H244569-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	227	113	200	2.99	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	214	107	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: FS - 21 (H244569-11)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.87	93.3	2.00	4.45	
Toluene*	<0.050	0.050	08/01/2024	ND	1.83	91.5	2.00	3.68	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.94	97.0	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.70	95.1	6.00	3.38	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	87.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.0	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: FS - 32 (H244569-12)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

## Sample ID: FS - 33 (H244569-13)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	89.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.5	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: FS - 34 (H244569-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	92.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.2	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

## Sample ID: FS - 35 (H244569-15)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	89.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	<b>93</b> .7	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

## Sample ID: FS - 36 (H244569-16)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

# Sample ID: FS - 37 (H244569-17)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	90.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	<i>93.8</i>	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

## Sample ID: FS - 38 (H244569-18)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: FS - 39 (H244569-19)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: FS - 40 (H244569-20)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: FS - 41 (H244569-21)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.08	104	2.00	6.41	
Toluene*	<0.050	0.050	08/01/2024	ND	2.27	114	2.00	4.35	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.43	122	2.00	4.24	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.28	121	6.00	3.65	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/01/2024	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	220	110	200	3.02	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	202	101	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: FS - 42 (H244569-22)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: FS - 43 (H244569-23)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: FS - 44 (H244569-24)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	97.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: FS - 45 (H244569-25)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	1169	% 49.1-14	8						

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Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: FS - 46 (H244569-26)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	81.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.4	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: FS - 47 (H244569-27)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: FS - 48 (H244569-28)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: FS - 49 (H244569-29)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: FS - 50 (H244569-30)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	93.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.8	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/01/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: FS - 51 (H244569-31)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	2.11	105	2.00	5.44	
Toluene*	<0.050	0.050	08/01/2024	ND	2.42	121	2.00	5.19	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	2.57	129	2.00	5.02	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	08/01/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

# aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 34 of 37

Company Name:	(575) 393-2326	(575) 393-2326 FAX (575) 393-2476	176	BILL TO			ANALYSIS	IS REQUEST	
Project Manager:	Sam Ab	Abbott		P.O. 井			_		
Address:				Company: Tota	trah				
City:		State:	Zip:	m Ab	+				
Phone #:		Fax #:							_
Project #: 2125-MD-02997	-WD-0290	7 Project Owner:		City:					
Project Name: V	Vest Brushy	y & Federal	1 SWD # OOLR	State: Zip:					_
Project Location:	dy lo.	3		Phone #:					
Sampler Name:	C	Goraco		Fax #:			£,		
FOR LAB USE ONLY			MATRIX	PRESERV. SAMI	SAMPLING		d		
Lab I.D.	Sample I.D.	e I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	TIME BTEX	TPH	Chlon		
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Relinquished By:		Date: Time:	Received By:		REMARKS: Andra	3	Gorina C Tetratech.com	tratech.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	le One) is - Other:	Observed Temp. °C Corrected Temp. °C	C Cool Infact	(Initials)	Turnaround Time: Thermometer ID #140 Correction Factor 0°C		Standard Baci Rush Q Cool	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Ves Yes No No Corrected Temp. °C	-
			ALL PARTY OF THE P	ŀ		I	I		

+ Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Bacteria (only) Sample Condition	Standard Rush	round Time: ometer ID 6140	Turnaround Time: Thermometer ID #1	(Initials)	Sample Condition Cool Intact	Corrected Temp. *C	ie One) is - Other:	Sampler - UPS - Bus - Oti
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Yes     Yes     No     Add'l Phone #:     Alled. Please provide.Email address:	Yes I No	3 1	Verbal Result: All Results are e		Received By:	7/31/24		A 1
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ANALYSIS REQUEST	-		3	BILL TO		Philips	" Conoro	Company Name:
page 2 of	,				1240	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	101 East Marland (575) 393-2326	
CUSTODY AND ANALYSIS REQUEST		CHAIN-OF-	CHAI		Ń	oratories	abor	

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Page 35 of 37

Delivered By: (Circle One) . Sampler - UPS - Bus - Other:	Relinquished By:	more Garce	- 1	pres. All chains, including those for regiligence and any co. In no event shall Cardinal be liable for incidental or the or successor	PLEASE NOTE: Liability and Damages. Cardinal's Eability a	ES-	-st	FS-	FS-	- 53	1	-S4		55.	Lab I.D. Sample I.D.	FOR IAR ING THE CARLY	Project Location: Eddy to,	Project Name: viest Brushy	Project #: 2125-MD-029	Phone #:	City:	ess:	Project Manager: Seym A	Company Name: Cono co	101 East Maria (575) 393-232
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August 05, 2024

SAM ABBOTT TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: WEST BRUSHY 8 FED SWD #1R

Enclosed are the results of analyses for samples received by the laboratory on 08/02/24 9:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	08/02/2024	Sampling Date:	08/01/2024
Reported:	08/05/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: ISW - 2 (H244634-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	2.03	102	2.00	1.02	
Toluene*	<0.050	0.050	08/02/2024	ND	2.18	109	2.00	0.147	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.29	115	2.00	0.347	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	7.03	117	6.00	0.191	
Total BTEX	<0.300	0.300	08/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	08/05/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	223	112	200	4.15	
DRO >C10-C28*	12.1	10.0	08/02/2024	ND	217	108	200	14.7	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.6	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	08/02/2024	Sampling Date:	08/01/2024
Reported:	08/05/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: ISW - 3 (H244634-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	2.03	102	2.00	1.02	
Toluene*	<0.050	0.050	08/02/2024	ND	2.18	109	2.00	0.147	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.29	115	2.00	0.347	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	7.03	117	6.00	0.191	
Total BTEX	<0.300	0.300	08/02/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	08/05/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	223	112	200	4.15	
DRO >C10-C28*	17.2	10.0	08/02/2024	ND	217	108	200	14.7	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					
Surrogate: 1-Chlorooctane	91.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.5	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose site to the services interruptors, loss of profits incurred by client, its subsidiaries, afflictes or successor arising out of or related to the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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	Date: Time:		Date: Time:	24	Date: Time:						ISW-3	ISW-2		SAMPLE IDENTIFICATION		: Andrew, Gascia etc	Cardinal Labs	Attn: Sam. Abbott ettra	E ddy County, NM	Brushy & Federal SUD	· Phillips	Tetra Tech, Inc.	
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August 06, 2024

SAM ABBOTT TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: WEST BRUSHY 8 FED SWD #1R

Enclosed are the results of analyses for samples received by the laboratory on 08/05/24 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	08/05/2024	Sampling Date:	08/05/2024
Reported:	08/06/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: ISW - 2 (1') (H244695-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2024	ND	1.94	97.1	2.00	0.552	
Toluene*	<0.050	0.050	08/05/2024	ND	1.89	94.6	2.00	0.971	
Ethylbenzene*	<0.050	0.050	08/05/2024	ND	1.99	99.4	2.00	1.38	
Total Xylenes*	<0.150	0.150	08/05/2024	ND	5.88	98.0	6.00	1.05	
Total BTEX	<0.300	0.300	08/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/06/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2024	ND	210	105	200	2.65	
DRO >C10-C28*	<10.0	10.0	08/05/2024	ND	217	109	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	08/05/2024	ND					
Surrogate: 1-Chlorooctane	84.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	08/05/2024	Sampling Date:	08/05/2024
Reported:	08/06/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: ISW - 3 (1') (H244695-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2024	ND	1.94	97.1	2.00	0.552	
Toluene*	<0.050	0.050	08/05/2024	ND	1.89	94.6	2.00	0.971	
Ethylbenzene*	<0.050	0.050	08/05/2024	ND	1.99	99.4	2.00	1.38	
Total Xylenes*	<0.150	0.150	08/05/2024	ND	5.88	98.0	6.00	1.05	
Total BTEX	<0.300	0.300	08/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/06/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2024	ND	210	105	200	2.65	
DRO >C10-C28*	<10.0	10.0	08/05/2024	ND	217	109	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	08/05/2024	ND					
Surrogate: 1-Chlorooctane	87.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	08/05/2024	Sampling Date:	08/05/2024
Reported:	08/06/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: FS - 25 (H244695-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2024	ND	2.06	103	2.00	12.3	
Toluene*	<0.050	0.050	08/05/2024	ND	2.17	109	2.00	12.8	
Ethylbenzene*	<0.050	0.050	08/05/2024	ND	2.29	115	2.00	12.7	
Total Xylenes*	<0.150	0.150	08/05/2024	ND	7.02	117	6.00	12.9	
Total BTEX	<0.300	0.300	08/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	08/06/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2024	ND	210	105	200	2.65	
DRO >C10-C28*	<10.0	10.0	08/05/2024	ND	217	109	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	08/05/2024	ND					
Surrogate: 1-Chlorooctane	80.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.4	% 49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH SAM ABBOTT 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	08/05/2024	Sampling Date:	08/05/2024
Reported:	08/06/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1R	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997	Sample Received By:	Alyssa Parras
Project Location:	COP- EDDY COUNTY, NM		

#### Sample ID: FS - 26 (H244695-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2024	ND	2.06	103	2.00	12.3	
Toluene*	<0.050	0.050	08/05/2024	ND	2.17	109	2.00	12.8	
Ethylbenzene*	<0.050	0.050	08/05/2024	ND	2.29	115	2.00	12.7	
Total Xylenes*	<0.150	0.150	08/05/2024	ND	7.02	117	6.00	12.9	
Total BTEX	<0.300	0.300	08/05/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/06/2024	ND	432	108	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2024	ND	210	105	200	2.65	
DRO >C10-C28*	<10.0	10.0	08/05/2024	ND	217	109	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	08/05/2024	ND					
Surrogate: 1-Chlorooctane	72.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.6	% 49.1-14	8						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: Address:	San Abbott		P.O. #:	70	-11		ANALYSIS REQUEST
City:	State:	Zip:	Company: Tetra	Trich	_		
	Fax #:		Address:	1100			
Project #: 212 C	-02997P		City:			_	
Project Name: West	B	ral SWD \$0018	State: Zip:			_	
Project Location:	1		#				
Sampler Name:	Andrew Garcia		Fax #:				
FOR LAB USE ONLY	CT CAPIT	L	Fax #:		_		
		-	PRESERV. S.	SAMPLING	_	des	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OI # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE	CE / COOL		TPH	BTEX	
1	I5~-2(1)		A X IC O	INE	< <		
10	2			1100		-	
- (	C7 - C1		-	1700		-	
-	FS-26	44	* 4	1300	4	4	
PLEASE NOTE: Liability and Dan	4008. Cardinol's linkage and sheater						
service. In no event shall Cardinal be liable for incidental arr oth affiliates or successors arising out of or related to the performan Relinquished By:	8 8 4	cause whatsoever shall be deemed waived unless made in writing and received by Cardinalwithin 30 days after completion of the a quartial damages, including without imitiation, business interruptions, loss of user, or loss of profits incurred by client, its substairies, of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated nessons or oftwavide. <b>Dato:</b>	de in writing and received by Cardina@utitle amount s interruptions, loss of use, or loss of profits incurred b her such claim is based upon any of the above stated	axid by the client for the fiter completion of the app y client, its subsidiaries, reasons or otherwise.	icable		•
Andrew (	JACAS TIME: 1	3		Verbal Result: All Results are	emailed. P	. Please prov	Yes No Add'I Phone #: emailed. Please provide Email address:
Relinquished By:		Received By:	•	Sam,	No	ootte.	Abbott e Fetratech. com
		Sample Condition	CHECKED BY:	Andrew Turnaround Time:		Standard	Standard D Bacteria Innu Samola Condition
Sampler - LIPS - Bus - Con	Bus Other		Comment	Thomas in as a			~

#### Page 174 of 212

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Received by OCD: 8/29/2024 5:49:31 PM



**Environment Testing** 

# ANALYTICAL REPORT

# **PREPARED FOR**

Attn: Luis Rivera R360 ES Holdings Inc 507 N Marienfield Midland, Texas 79701 Generated 7/26/2024 8:29:26 AM

# JOB DESCRIPTION

R360 -backfill

# **JOB NUMBER**

890-6947-1

EOL

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information

Page 1 of 25

# **Eurofins Carlsbad**

### Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

#### **Authorization**

AMER

Generated 7/26/2024 8:29:26 AM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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3

#### **Definitions/Glossary**

#### Client: R360 ES Holdings Inc Project/Site: R360 -backfill

Job ID: 890-6947-1

## Qualifiers

HPLC/IC		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	5

#### Glossary

Glossary		- 6
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	7
%R	Percent Recovery	
CFL	Contains Free Liquid	0
CFU	Colony Forming Unit	8
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	9
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

**Case Narrative** 

Job ID: 890-6947-1

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#### Job ID: 890-6947-1

#### **Eurofins Carlsbad**

#### Job Narrative 890-6947-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
  situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
  specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 7/22/2024 11:07 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

#### HPLC/IC

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-86374 and analytical batch 880-86423 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

		Client S	ample F	Results	;				
Client: R360 ES Holdings Inc Project/Site: R360 -backfill								Job ID: 890	)-6947-1
Client Sample ID: E#88							Lab Sa	mple ID: 890-	6947-1
Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07								Matr	ix: Solic
Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte		Qualifier			Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Chloride	155		5.04	0.398	mg/Kg			07/26/24 00:36	
Client Sample ID: E#89							Lab Sa	mple ID: 890-	6947-2
Date Collected: 07/22/24 07:00								Matr	ix: Solio
Date Received: 07/22/24 11:07									
Method: EPA 300.0 - Anions, Ion C						_			
Analyte Chloride	68.6	Qualifier		MDL	Unit mg/Kg	D	Prepared	Analyzed 07/26/24 00:52	Dil Fa
	00.0		5.05	0.397	ilig/Kg			07/20/24 00:52	
Client Sample ID: E#90							Lab Sa	mple ID: 890-	6947-3
Date Collected: 07/22/24 07:00								Matr	ix: Solic
Date Received: 07/22/24 11:07									
Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte		Qualifier	RL		Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Chloride	48.7		4.99	0.394	mg/Kg			07/26/24 00:57	
Client Sample ID: E#91							Lab Sa	mple ID: 890-	6947-4
Date Collected: 07/22/24 07:00								Matr	ix: Solic
Date Received: 07/22/24 11:07									
_ Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
Chloride	65.0		4.98	0.393	mg/Kg			07/26/24 01:13	
Client Sample ID: E#92							Lab Sa	mple ID: 890-	6947-5
Date Collected: 07/22/24 07:00								Matr	ix: Solic
Date Received: 07/22/24 11:07									
	hromatograp	hv - Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	37.6		5.00	0.395	mg/Kg			07/26/24 01:18	
Client Sample ID: E#93							Lab Sa	mple ID: 890-	6947-6
Date Collected: 07/22/24 07:00									ix: Solic
Date Received: 07/22/24 11:07									
_ Method: EPA 300.0 - Anions, Ion C	bromatograp	by Solublo							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	36.8		5.00	0.395	mg/Kg		-	07/26/24 01:23	·
Client Sample ID: E#94							l ah Sa	mple ID: 890-	6947-7
Date Collected: 07/22/24 07:00									ix: Solid
Date Received: 07/22/24 11:07									
Mothodi EDA 200.0 Anione Luc 2	hrometer	hu Calubla							
Method: EPA 300.0 - Anions, Ion C Analyte		Ohy - Soluble Qualifier	RL	мы	Unit	D	Prepared	Analyzed	Dil Fa
									a

	Sinomatograph	<b>y</b> contable						
Analyte	Result Q	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.4	4.99	0.394	mg/Kg			07/26/24 01:28	1

Eurofins Carlsbad

		Client S	ample R	Results	;				00474
Client: R360 ES Holdings Inc Project/Site: R360 -backfill								Job ID: 890	)-6947-7
Client Sample ID: E#95 Date Collected: 07/22/24 07:00							Lab Sa	mple ID: 890-	6947-8
Date Received: 07/22/24 11:07								Wat	
Method: EPA 300.0 - Anions, Ion C									
Analyte Chloride	Result 21.0	Qualifier	<b>RL</b> 5.04		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/26/24 01:34	Dil Fa
Client Sample ID: E#96							Lab Sa	mple ID: 890-	6947-9
Date Collected: 07/22/24 07:00								Matr	ix: Solio
Date Received: 07/22/24 11:07									
Method: EPA 300.0 - Anions, Ion C						_			
Analyte		Qualifier		MDL	Unit mg/Kg	D	Prepared	Analyzed 07/26/24 01:39	Dil Fa
Chloride	62.6		5.02	0.397	ilig/Kg				
Client Sample ID: E#97							Lab Sam	nple ID: 890-6	
Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07								Matr	ix: Solid
Method: EPA 300.0 - Anions, Ion C		-							
Analyte Chloride	Result 19.4	Qualifier	RL 4.98		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/26/24 01:44	Dil Fa
	15.4		4.90	0.595	ilig/itg				
Client Sample ID: E#98							Lab San	nple ID: 890-6	
Date Collected: 07/22/24 07:00								Matri	ix: Solid
Date Received: 07/22/24 11:07									
Method: EPA 300.0 - Anions, Ion C Analyte		hy - Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	14.5		4.96		mg/Kg		Trepared	07/25/24 17:16	
Client Sample ID: E#99							Lab Sam	nple ID: 890-6	947-12
Date Collected: 07/22/24 07:00									ix: Solic
Date Received: 07/22/24 11:07									
	hromatograp	hy - Soluble							
Analyte		Qualifier	RL		Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Chloride	94.2		4.98	0.393	mg/Kg			07/25/24 17:32	
Client Sample ID: E#100							Lab Sam	nple ID: 890-6	947-13
Date Collected: 07/22/24 07:00								Matr	ix: Solio
Date Received: 07/22/24 11:07									
Method: EPA 300.0 - Anions, Ion C Analyte		<mark>hy - Soluble</mark> Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	18.7		4.99		mg/Kg		riepaieu	07/25/24 17:37	
Client Sample ID: E#101							Lab Sam	nple ID: 890-6	947-14
Date Collected: 07/22/24 07:00								· · · · · · · · · · · · · · · · · · ·	ix: Solid
Date Received: 07/22/24 11:07									
_ Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.3	5.02	0.397 mg/Kg			07/25/24 17:42	1

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		Client Sa	ample F	Results	;				
Client: R360 ES Holdings Inc								Job ID: 890	)-6947-1
Project/Site: R360 -backfill									
Client Sample ID: E#102							Lab Sam	nple ID: 890-6	947-1
Date Collected: 07/22/24 07:00								Matr	ix: Solic
Date Received: 07/22/24 11:07									
_ Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	120		5.01	0.396	mg/Kg		-	07/25/24 17:47	
Client Sample ID: E#103							Lab Sam	nple ID: 890-6	947-1
Date Collected: 07/22/24 07:00								-	ix: Solid
Date Received: 07/22/24 11:07								indti	
_ Method: EPA 300.0 - Anions, Ion C	bromatogran	by - Solublo							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	159		5.01		mg/Kg			07/25/24 18:03	
Client Sample ID: E#104							Lab San	nple ID: 890-6	
Date Collected: 07/22/24 07:00								Matr	ix: Solid
Date Received: 07/22/24 11:07									
Method: EPA 300.0 - Anions, Ion C									
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fa
Chloride	221		5.04	0.398	mg/Kg			07/25/24 18:08	
Client Sample ID: E#105							Lab Sam	nple ID: 890-6	947-18
Date Collected: 07/22/24 07:00								Matr	ix: Solic
Date Received: 07/22/24 11:07									
	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	274		5.03	0.397	mg/Kg			07/25/24 18:14	
Client Sample ID: E#106							Lab Sam	nple ID: 890-6	947-19
Date Collected: 07/22/24 07:00								Matr	ix: Solic
Date Received: 07/22/24 11:07									
_ Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	161		5.05	0.399	mg/Kg			07/25/24 18:19	
Client Sample ID: E#107							Lab Sam	nple ID: 890-6	947-20
Date Collected: 07/22/24 07:00								•	ix: Solic
Date Received: 07/22/24 11:07									
_									
Method: EPA 300.0 - Anions, Ion C Analyte		hy - Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	197		4.99		mg/Kg		Ticparcu	07/25/24 18:24	
- Client Sample ID: E#400							l ah Car	200 e 10 e	0/7 2/
Client Sample ID: E#108 Date Collected: 07/22/24 07:00							Lay Jdli	nple ID: 890-6 Matr	
Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07								watr	ix: Solic
-									
Method: EPA 300.0 - Anions, Ion C		-				_	<b>.</b> .	<b>.</b>	<b></b>
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

Method. LIA 300.0 - Amons, Ion of	momatograp	ily - Solubi	6						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	263	F1	4.96	0.392	mg/Kg			07/25/24 18:30	1

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		Client S	ample F	Results	;				
Client: R360 ES Holdings Inc			•					Job ID: 890	-6947-1
Project/Site: R360 -backfill									
Client Sample ID: E#109							Lab San	nple ID: 890-6	947-22
Date Collected: 07/22/24 07:00								Matri	ix: Solid
Date Received: 07/22/24 11:07									
Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	284		4.97	0.393	mg/Kg			07/25/24 18:45	1
Client Sample ID: E#110							Lab San	nple ID: 890-6	947-23
Date Collected: 07/22/24 07:00								Matri	ix: Solid
Date Received: 07/22/24 11:07									
Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		4.95	0.391	mg/Kg			07/25/24 18:50	1
Client Sample ID: E#111							Lab San	nple ID: 890-6	947-24
Date Collected: 07/22/24 07:00								Matri	ix: Solid
Date Received: 07/22/24 11:07									
Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	198		4.99	0 394	mg/Kg			07/25/24 19:06	1

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.

# **QC Sample Results**

Client: R360 ES Holdings Inc Project/Site: R360 -backfill

Job ID: 890-6947-1

# Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-86373/1-A Matrix: Solid											Client S	ample ID: Prep	Method Type: S	
Analysis Batch: 86421													.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	М	в мв												
Analyte	Resu	It Qualifier		RL		MDL U	Jnit		D	Pr	repared	Analyz	ed	Dil Fac
Chloride	<5.0	0 U		5.00	(	).395 n	ng/Kg					07/25/24	23:07	1
Lab Sample ID: LCS 880-86373/2-/	<b>`</b>								Clie	ent	Sample	ID: Lab Co	ontrol S	Sample
Matrix: Solid													Type: S	
Analysis Batch: 86421														
Analyte			Spike Added			LCS Qualifi	ior	Unit		D	%Rec	%Rec Limits		
Chloride			250		254.2	Quaim		mg/Kg		_	102	90 - 110		
-														
Lab Sample ID: LCSD 880-86373/3	- <b>A</b>							Cli	ent S	am	ple ID: I	Lab Contro		
Matrix: Solid Analysis Batch: 86421												Prep	Type: S	SOIUDIE
Analysis Baton. 00421			Spike		LCSD	LCSD						%Rec		RPD
Analyte			Added		Result	Qualifi	ier	Unit		D	%Rec	Limits	RPD	Limi
Chloride			250		255.4			mg/Kg			102	90 - 110	0	20
Lab Sample ID: 890-6947-1 MS Matrix: Solid												Client Sa Prep	mple ID Type: S	
Analysis Batch: 86421														
	Sample Sa	•	Spike		MS	MS						%Rec		
Analyte Chloride		alifier	Added 252		Result 398.4	Qualifi	ier	Unit mg/Kg		D	%Rec 97	Limits 90 - 110		
Lab Sample ID: 890-6947-1 MSD												Client Sa	mple ID	): E#88
Lab Sample ID: 890-6947-1 MSD Matrix: Solid Analysis Batch: 86421													mple ID Type: S	
Matrix: Solid	Sample Sa	•	Spike		MSD	MSD							Type: S	Soluble
Matrix: Solid Analysis Batch: 86421 Analyte	Result Qu	•	Added		Result	MSD Qualifi	ier	Unit		D	%Rec	Prep %Rec Limits	Type: S	RPE Limi
Matrix: Solid Analysis Batch: 86421 Analyte	•	•					ier	Unit mg/Kg		<u>D</u>	%Rec 97	Prep %Rec	Type: S	RPE Limi
Matrix: Solid Analysis Batch: 86421 Analyte Chloride Lab Sample ID: MB 880-86374/1-A	<b>Result</b> Qu 155	•	Added		Result		ier				97	Prep %Rec Limits 90 - 110 Gample ID:	Type: S	RPE Limi 20
Matrix: Solid Analysis Batch: 86421 Analyte Chloride Lab Sample ID: MB 880-86374/1-A Matrix: Solid	<b>Result</b> Qu 155	•	Added		Result		ier				97	Prep %Rec Limits 90 - 110 Gample ID:	<b>Type: S RPD</b> 0	RPE Limi 20
Matrix: Solid Analysis Batch: 86421 Analyte Chloride Lab Sample ID: MB 880-86374/1-A	Result Qu	ialifier	Added		Result		ier				97	Prep %Rec Limits 90 - 110 Gample ID:	Type: S	RPE Limi 20
Matrix: Solid Analysis Batch: 86421 Analyte Chloride Lab Sample ID: MB 880-86374/1-A Matrix: Solid Analysis Batch: 86423	Result Qu 155	•	Added	RL	Result				D		97 Client S	Prep %Rec Limits 90 - 110 Gample ID: Prep	Type: S <u>RPD</u> 0 Method Type: S	RPE Limin 20 I Blank Soluble
Matrix: Solid Analysis Batch: 86421 Analyte Chloride Lab Sample ID: MB 880-86374/1-A Matrix: Solid	Result Qu 155	B MB	Added	<b>RL</b> 5.00	<b>Result</b> 398.9	Qualifi	Jnit				97	Prep %Rec Limits 90 - 110 Gample ID:	Type: S <u>RPD</u> 0 Method Type: S red	RPD Limit 20 I Blank Soluble Dil Fac
Matrix: Solid Analysis Batch: 86421 Analyte Chloride Lab Sample ID: MB 880-86374/1-A Matrix: Solid Analysis Batch: 86423 Analyte Chloride	Result Qu 155 MI Resu <5.0	B MB	Added		<b>Result</b> 398.9	Qualifi	Jnit		<u>D</u>	Pr	97 Client S	Prep %Rec Limits 90 - 110 Sample ID: Prep Analyz 07/25/24	RPD       0       Method       Type: S       eed       17:00	RPE Limi 20 I Blank Soluble Dil Fac
Matrix: Solid Analysis Batch: 86421 Analyte Chloride Lab Sample ID: MB 880-86374/1-A Matrix: Solid Analysis Batch: 86423 Analyte Chloride	Result Qu 155 MI Resu <5.0	B MB	Added		<b>Result</b> 398.9	Qualifi	Jnit		<u>D</u>	Pr	97 Client S	Prep %Rec Limits 90 - 110 Sample ID: Prep Analyz 07/25/24	Type: S <u>RPD</u> 0 Method Type: S red 17:00 -	RPE Limi 20 I Blank Soluble Dil Fac
Matrix: Solid Analysis Batch: 86421 Analyte Chloride Lab Sample ID: MB 880-86374/1-A Matrix: Solid Analysis Batch: 86423 Analyte Chloride Lab Sample ID: LCS 880-86374/2-4	Result Qu 155 MI Resu <5.0	B MB	Added		<b>Result</b> 398.9	Qualifi	Jnit		<u>D</u>	Pr	97 Client S	Prep %Rec Limits 90 - 110 Sample ID: Prep Analyz 07/25/24	RPD       0       Method       Type: S       eed       17:00	RPE Limi 20 I Blank Soluble Dil Fac
Matrix: Solid Analysis Batch: 86421 Analyte Chloride Lab Sample ID: MB 880-86374/1-A Matrix: Solid Analysis Batch: 86423 Analyte Chloride Lab Sample ID: LCS 880-86374/2-A Matrix: Solid Analysis Batch: 86423	Result Qu 155 MI Resu <5.0	B MB	Added 252		Result 398.9	Qualifi MDL L 0.395 n	Jnit ng/Kg	mg/Kg	D	Pr	97 Client S repared Sample	Prep %Rec Limits 90 - 110 Gample ID: Prep Analyz 07/25/24 e ID: Lab Cd Prep %Rec	Type: S <u>RPD</u> 0 Method Type: S red 17:00 -	RPC Limi 20 I Blank Soluble Dil Fac
Matrix: Solid Analysis Batch: 86421 Analyte Chloride Lab Sample ID: MB 880-86374/1-A Matrix: Solid Analysis Batch: 86423 Analyte Chloride Lab Sample ID: LCS 880-86374/2-A Matrix: Solid Analysis Batch: 86423 Analyte	Result Qu 155 MI Resu <5.0	B MB	Added 252 Spike Added		Result 398.9	Qualifi	Jnit ng/Kg	Unit	D	Pr	97 Client S repared Sample	Prep %Rec Limits 90 - 110 Gample ID: Prep Mrep %Rec Limits	Type: S <u>RPD</u> 0 Method Type: S red 17:00 -	RPC Limi 20 I Blank Soluble Dil Fac
Matrix: Solid Analysis Batch: 86421 Chloride Lab Sample ID: MB 880-86374/1-A Matrix: Solid Analysis Batch: 86423 Analyte Chloride Lab Sample ID: LCS 880-86374/2-A Matrix: Solid Analysis Batch: 86423 Analyte	Result Qu 155 MI Resu <5.0	B MB	Added 252		Result 398.9	Qualifi MDL L 0.395 n	Jnit ng/Kg	mg/Kg	D	Pr	97 Client S repared Sample	Prep %Rec Limits 90 - 110 Gample ID: Prep Analyz 07/25/24 e ID: Lab Cd Prep %Rec	Type: S <u>RPD</u> 0 Method Type: S red 17:00 -	RPE Limi 20 I Blank Soluble Dil Fac
Matrix: Solid Analysis Batch: 86421 Analyte Chloride Lab Sample ID: MB 880-86374/1-A Matrix: Solid Analysis Batch: 86423 Analyte Chloride Lab Sample ID: LCS 880-86374/2-/ Matrix: Solid Analysis Batch: 86423 Analyte Chloride Lab Sample ID: LCSD 880-86374/3	Result         Qu           155         Mi           Result         Kesult           <5.0	B MB	Added 252 Spike Added		Result 398.9	Qualifi MDL L 0.395 n	Jnit ng/Kg	Unit mg/Kg	D Clic	Pr ent	97 Client S repared Sample	Prep %Rec Limits 90 - 110 Gample ID: Prep Analyz 07/25/24 9 ID: Lab Co Prep %Rec Limits 90 - 110	RPD       0       Method       Type: S       20       17:00       0	Soluble RPI Limi 20 I Blank Soluble Dil Fae Soluble Soluble
Matrix: Solid Analysis Batch: 86421 Analyte Chloride Lab Sample ID: MB 880-86374/1-A Matrix: Solid Analysis Batch: 86423 Analyte Chloride Lab Sample ID: LCS 880-86374/2-4 Matrix: Solid Analysis Batch: 86423 Analyte Chloride Lab Sample ID: LCSD 880-86374/3 Matrix: Solid	Result         Qu           155         Mi           Result         Kesult           <5.0	B MB	Added 252 Spike Added		Result 398.9	Qualifi MDL L 0.395 n	Jnit ng/Kg	Unit mg/Kg	D Clic	Pr ent	97 Client S repared Sample	Prep %Rec Limits 90 - 110 Gample ID: Prep Analyz 07/25/24 9 ID: Lab Co Prep %Rec Limits 90 - 110	Type: S <u>RPD</u> 0 Method Type: S ced 17:00 Control S Type: S	Soluble RPC Limi 20 I Blank Soluble Dil Fac Soluble Soluble
Matrix: Solid Analysis Batch: 86421 Analyte Chloride Lab Sample ID: MB 880-86374/1-A Matrix: Solid Analysis Batch: 86423 Analyte Chloride Lab Sample ID: LCS 880-86374/2-A Matrix: Solid Analysis Batch: 86423 Analyte	Result         Qu           155         Mi           Result         Kesult           <5.0	B MB	Added 252 Spike Added 250		Result           398.9           LCS           Result           248.7	Qualifi MDL U 0.395 n	Jnit ng/Kg	Unit mg/Kg	D Clic	Pr ent	97 Client S repared Sample	Prep %Rec Limits 90 - 110 Gample ID: Prep Analyz 07/25/24 e ID: Lab Co Prep %Rec Limits 90 - 110 Lab Contro	RPD       0       Method       Type: S       20       17:00       0	Soluble RPD Limit 20 I Blank Soluble Dil Fac 1 Sample Soluble Dil Fac
Matrix: Solid Analysis Batch: 86421 Analyte Chloride Lab Sample ID: MB 880-86374/1-A Matrix: Solid Analysis Batch: 86423 Analyte Chloride Lab Sample ID: LCS 880-86374/2-A Matrix: Solid Analysis Batch: 86423 Analyte Chloride	Result         Qu           155         Mi           Result         Kesult           <5.0	B MB	Added 252 Spike Added		Result 398.9	Qualifi MDL L 0.395 n	Jnit ng/Kg ier	Unit mg/Kg	D Clie	Pr ent	97 Client S repared Sample	Prep %Rec Limits 90 - 110 Gample ID: Prep Analyz 07/25/24 9 ID: Lab Co Prep %Rec Limits 90 - 110	RPD       0       Method       Type: S       20       17:00       0	RPD Limit 20 I Blank Soluble Dil Fac 1 Sample Soluble

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# **QC Sample Results**

Client: R360 ES Holdings Inc Project/Site: R360 -backfill

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-6947-11 MS Matrix: Solid									Client Sa Prep	mple ID: Type: S	
Analysis Batch: 86423										1	
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	14.5		248	272.7		mg/Kg		104	90 - 110		
Lab Sample ID: 890-6947-11 MSD									Client Sa	mple ID:	: <b>E#9</b> 8
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 86423											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	14.5		248	273.0		mg/Kg		104	90 - 110	0	20
_ Lab Sample ID: 890-6947-21 MS									Client Sam	nple ID:	E#108
Matrix: Solid										· Type: Se	
Analysis Batch: 86423											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	263	F1	248	539.4	F1	mg/Kg		111	90 - 110		
Lab Sample ID: 890-6947-21 MSD									Client Sam	nple ID:	E#108
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 86423											
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	263	F1	248	541.1	F1	mg/Kg		112	90 - 110	0	20

5 6

Job ID: 890-6947-1

**Client Sample ID** 

E#88

E#89

E#90

E#91

E#92

E#93

E#94

E#95

E#96

E#97

E#88

E#88

Method Blank

Lab Control Sample

Lab Control Sample Dup

# **QC Association Summary**

Prep Type

Soluble

Matrix

Solid

Method

DI Leach

Client: R360 ES Holdings Inc Project/Site: R360 -backfill

Prep Batch

Job ID: 890-6947-1

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#### Leach Batch: 86374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6947-11	E#98	Soluble	Solid	DI Leach	
890-6947-12	E#99	Soluble	Solid	DI Leach	
890-6947-13	E#100	Soluble	Solid	DI Leach	
890-6947-14	E#101	Soluble	Solid	DI Leach	
890-6947-15	E#102	Soluble	Solid	DI Leach	
890-6947-16	E#103	Soluble	Solid	DI Leach	
890-6947-17	E#104	Soluble	Solid	DI Leach	
890-6947-18	E#105	Soluble	Solid	DI Leach	
890-6947-19	E#106	Soluble	Solid	DI Leach	
890-6947-20	E#107	Soluble	Solid	DI Leach	
890-6947-21	E#108	Soluble	Solid	DI Leach	
890-6947-22	E#109	Soluble	Solid	DI Leach	
890-6947-23	E#110	Soluble	Solid	DI Leach	
890-6947-24	E#111	Soluble	Solid	DI Leach	
MB 880-86374/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-86374/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-86374/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6947-11 MS	E#98	Soluble	Solid	DI Leach	
890-6947-11 MSD	E#98	Soluble	Solid	DI Leach	
890-6947-21 MS	E#108	Soluble	Solid	DI Leach	
890-6947-21 MSD	E#108	Soluble	Solid	DI Leach	

#### Analysis Batch: 86421

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-6947-1	E#88	Soluble	Solid	300.0	86373
890-6947-2	E#89	Soluble	Solid	300.0	86373
890-6947-3	E#90	Soluble	Solid	300.0	86373
890-6947-4	E#91	Soluble	Solid	300.0	86373
890-6947-5	E#92	Soluble	Solid	300.0	86373
890-6947-6	E#93	Soluble	Solid	300.0	86373
890-6947-7	E#94	Soluble	Solid	300.0	86373
890-6947-8	E#95	Soluble	Solid	300.0	86373
890-6947-9	E#96	Soluble	Solid	300.0	86373

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HPLC/IC

Leach Batch: 86373

Lab Sample ID

890-6947-1

890-6947-2

890-6947-3

890-6947-4

890-6947-5

890-6947-6

890-6947-7

890-6947-8

890-6947-9

890-6947-10

MB 880-86373/1-A

LCS 880-86373/2-A

890-6947-1 MS

890-6947-1 MSD

LCSD 880-86373/3-A

Released to Imaging: 9/6/2024 10:33:04 AM

# **QC** Association Summary

Client: R360 ES Holdings Inc Project/Site: R360 -backfill

# HPLC/IC (Continued)

### Analysis Batch: 86421 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6947-10	E#97	Soluble	Solid	300.0	86373
MB 880-86373/1-A	Method Blank	Soluble	Solid	300.0	86373
LCS 880-86373/2-A	Lab Control Sample	Soluble	Solid	300.0	86373
LCSD 880-86373/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	86373
890-6947-1 MS	E#88	Soluble	Solid	300.0	86373
890-6947-1 MSD	E#88	Soluble	Solid	300.0	86373

### Analysis Batch: 86423

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-6947-11	E#98	Soluble	Solid	300.0	86374
890-6947-12	E#99	Soluble	Solid	300.0	86374
890-6947-13	E#100	Soluble	Solid	300.0	86374
890-6947-14	E#101	Soluble	Solid	300.0	86374
890-6947-15	E#102	Soluble	Solid	300.0	86374
890-6947-16	E#103	Soluble	Solid	300.0	86374
890-6947-17	E#104	Soluble	Solid	300.0	86374
890-6947-18	E#105	Soluble	Solid	300.0	86374
890-6947-19	E#106	Soluble	Solid	300.0	86374
890-6947-20	E#107	Soluble	Solid	300.0	86374
890-6947-21	E#108	Soluble	Solid	300.0	86374
890-6947-22	E#109	Soluble	Solid	300.0	86374
890-6947-23	E#110	Soluble	Solid	300.0	86374
890-6947-24	E#111	Soluble	Solid	300.0	86374
MB 880-86374/1-A	Method Blank	Soluble	Solid	300.0	86374
LCS 880-86374/2-A	Lab Control Sample	Soluble	Solid	300.0	86374
LCSD 880-86374/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	86374
890-6947-11 MS	E#98	Soluble	Solid	300.0	86374
890-6947-11 MSD	E#98	Soluble	Solid	300.0	86374
890-6947-21 MS	E#108	Soluble	Solid	300.0	86374
890-6947-21 MSD	E#108	Soluble	Solid	300.0	86374

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Job ID: 890-6947-1

Job ID

Released to Imaging: 9/6/2024 10:33:04 AM

# Lab Chronicle

Client: R360 ES Holdings Inc Project/Site: R360 -backfill

# **Client Sample ID: E#88**

Lab Sample ID:	890-6947-1
	Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-6947-2

Lab Sample ID: 890-6947-3

Lab Sample ID: 890-6947-4

Lab Sample ID: 890-6947-5

Lab Sample ID: 890-6947-6

Job ID: 890-6947-1

Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86421	07/26/24 00:36	СН	EET MID

### Client Sample ID: E#89

#### Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86421	07/26/24 00:52	CH	EET MID

### Client Sample ID: E#90

### Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86421	07/26/24 00:57	СН	EET MID

### Client Sample ID: E#91

# Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86421	07/26/24 01:13	СН	EET MID

# Client Sample ID: E#92

#### Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86421	07/26/24 01:18	СН	EET MID

### Client Sample ID: E#93 Date Collected: 07/22/24 07:00

# Date Received: 07/22/24 11:07

Prep Тур	Batch De Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86421	07/26/24 01:23	СН	EET MID

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-6947-7

Lab Sample ID: 890-6947-8

Lab Sample ID: 890-6947-9

Lab Sample ID: 890-6947-10

Lab Sample ID: 890-6947-11

Lab Sample ID: 890-6947-12

# Lab Chronicle

Client: R360 ES Holdings Inc Project/Site: R360 -backfill

# Client Sample ID: E#94

Date	Collected:	07/22/24	07:00
Date	<b>Received:</b>	07/22/24	11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86421	07/26/24 01:28	СН	EET MID

### Client Sample ID: E#95

#### Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86421	07/26/24 01:34	СН	EET MID

### Client Sample ID: E#96

### Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86421	07/26/24 01:39	СН	EET MID

### Client Sample ID: E#97

# Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	86373	07/23/24 10:53	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86421	07/26/24 01:44	СН	EET MID

# Client Sample ID: E#98

# Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 17:16	СН	EET MID

# Client Sample ID: E#99

#### Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 17:32	СН	EET MID

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Job ID: 890-6947-1

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-6947-13

Lab Sample ID: 890-6947-14

Lab Sample ID: 890-6947-15

Client: R360 ES Holdings Inc Project/Site: R360 -backfill

### Client Sample ID: E#100 Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 17:37	СН	EET MID

### Client Sample ID: E#101 Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 17:42	СН	EET MID

# Client Sample ID: E#102

Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 17:47	СН	EET MID

# Client Sample ID: E#103

Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 18:03	СН	EET MID

### Client Sample ID: E#104 Date Collected: 07/22/24 07:00

Date Received: 07/22/24 07:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 18:08	СН	EET MID

# Client Sample ID: E#105 Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 18:14	СН	EET MID

Eurofins Carlsbad

Lab Sample ID: 890-6947-17

Lab Sample ID: 890-6947-18

Matrix: Solid

Matrix: Solid

# Lab Chronicle

Client: R360 ES Holdings Inc Project/Site: R360 -backfill

### Client Sample ID: E#106 Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 18:19	СН	EET MID

#### Client Sample ID: E#107 Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 18:24	СН	EET MID

# Client Sample ID: E#108

Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 18:30	СН	EET MID

### Client Sample ID: E#109

Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 18:45	СН	EET MID

#### Client Sample ID: E#110 Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 18:50	СН	EET MID

### Client Sample ID: E#111 Date Collected: 07/22/24 07:00 Date Received: 07/22/24 11:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analvzed	Analvst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 19:06	СН	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Job ID: 890-6947-1 Lab Sample ID: 890-6947-19 Matrix: Solid Lab Sample ID: 890-6947-20 Matrix: Solid

Lab Sample ID: 890-6947-21

Lab Sample ID: 890-6947-22

Lab Sample ID: 890-6947-23

Lab Sample ID: 890-6947-24

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

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Job ID: 890-6947-1

Accreditation/Certification	Summary
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Client: R360 ES Holdings Inc Project/Site: R360 -backfill

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

A	uthority	Program	Identification Number	Expiration Date
T	exas	NELAP	T104704400	06-30-25

Eurofins Carlsbad

# **Method Summary**

### Client: R360 ES Holdings Inc Project/Site: R360 -backfill

Job ID: 890-6947-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

#### Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

#### Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

E#88

E#89

E#90

E#91

E#92

E#93

E#94

E#95

E#96

E#97

E#98

E#99

E#100

E#101

E#102

E#103

E#104

E#105

E#106

E#107

E#108

E#109

E#110

E#111

**Client Sample ID** 

# **Sample Summary**

Matrix

Solid

07/22/24 07:00

07/22/24 11:07

#### Client: R360 ES Holdings Inc Project/Site: R360 -backfill

Lab Sample ID

890-6947-1

890-6947-2

890-6947-3

890-6947-4

890-6947-5

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890-6947-8

890-6947-9

890-6947-10 890-6947-11

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Collected	Received		
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07/22/24 07:00	07/22/24 11:07		
07/22/24 07:00	07/22/24 11:07		

Project Manager:     Huits CPT V & IC       Project Manager:     Huits CPT V & IC       Company Name:     Address:       Address:     Sess VS Huury 38S       Address:     Cury, State ZIP:       Project Name:     Project Number:       Project Number:     Dor La TX:       Project Number:     Dor La TX:       Project Location:     Dor La TX:       SAMPLE RECEIPT     Temp Blank:       Coole:     Concreted Temperature:       Sample Caroby Salls:     Ves No       Card Carob     C	S50, Carisbad, NM (575) 988-3199	Page     of       mments     mnfields     RRC       wnfields     RRC     D       art     other:     D       art     other:     D       None: NO     D1     N       LC: HC     HN     Me       H2004: H2     Nad     Nad       NaHSO     A: NABIS     Nad       NaHSO     A: NASO     3       Zn Acetate+NaOH: Zn     NaOH+Ascorbic Acid:
Autschilderent     Bill to: (if different)       Autschilder     Bill to: (if different)       Sess US Hwy a85     Address       Crianson     Address       Address     Address       Crianson     Address       Address     Addres       Address     Addre	ANALYSIS REQUEST ANALYSIS REQUEST Beliverables: EDD	mments     mments       wnfields     RRC       ssr/usr     rRrP       orther:     D       Preservative CC     Me       None: NO     DI       Cool: Cool     Me       H2C: HC     HN       H3PO 4: H2     NadSS       NaHSO 4: NABIS     NaHSO 3       Zn Acetate+NaOH: Zn     NaOH+Ascorbic Acid:
ACCO     Environmental State ZIP:       Sess: US Huur all     Aldress:       Address:     Address:       Addres:     Address:       Add	ANALYSIS REQUEST ANALYSIS REQUEST Beliverables: EDD	Brownfields RRC PST/UST TRRP DaPT Dther: Preservative None: NO Cool: Cool HCL: HC H, SO a; H 2 H, SO a; H 2 H, SO a; H 2 NaHSO 4: NABIS Na 25, 20 3; Na SO 3 Zn Acetate+NaOH: NaOH+Ascorbic Ac
Sessa US Huw allo     Address:       Orla TX TATTO     City, State ZIP:       Orla TX     Tum Aound       Per:     Pack f:       Det:     Pack f:       Prime     Tum Aound       Per:     Due Date:       Prime     Tum Aound       Prime     Tum Aound       Per:     Due Date:       Prime     Tum Aound       Prime	ANALYSIS REQUEST ANALYSIS REQUEST Beliverables: EDD	PST/UST TRRP Level IV DaPT Cother: Preservative Codes None: NO DI Water: H <sub>2</sub> Cool: Cool MeOH: Me H <sub>2</sub> PO 4: H <sub>2</sub> NaOH: Na H <sub>3</sub> PO 4: HP NaHS 4: NABIS Na 25 20 3: NaSO 3 Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
(4)05)351-3.694     Email:     Missing       Per:     Turn Around     Pinoutine     Pinoutine       Per:     Doi:     Die Date:     Pinoutine       Per:     Die Die Date:     Die Die Date:     Pinoutine       Per:     Tamp Blank:     Ves No     Wet Ics:     Yes No       Ves Ino     With     Temperature Reading:     2.7       Ves No     With     Temperature Reading:     2.7       Ves No     Watrix     Date     Time     Compt       Seals:     Yes No     Wet Ics:     Xes No       Ves No     With     Temperature Reading:     2.7       Seals:     Yes No     Wet Ics:     Xes No       Ves No     Watrix     Date     Time       Advisor     Sampled     Sampled     Sampled       ef Identification     Matrix     Date     Time       Advisor     Sampled     Sampled     Sampled       Advisor <td>ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST B0-6947 Chain of Custody Custody</td> <td>DaPT     Other:       Preservative     None: NO       None: NO     Cool: Cool       H2,004; H2     H3PO 4; H2       NaHS     NaHS       NaHS     NaSO       Na 25_203; NaSO     3       Zn Acetate+NaOH:     NaOH+Ascorbic Ac</td>	ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST B0-6947 Chain of Custody Custody	DaPT     Other:       Preservative     None: NO       None: NO     Cool: Cool       H2,004; H2     H3PO 4; H2       NaHS     NaHS       NaHS     NaSO       Na 25_203; NaSO     3       Zn Acetate+NaOH:     NaOH+Ascorbic Ac
Turn Around     Turn Around       Dec     Due Date:       Die     Due Date:       Die     Due Date:       CEIPT     Tam Blank:       Ves     No       Thermometer ID:     Thermometer ID:       Ves     No       Visals:     Yes       Ves     No       Natrix     Date       Seals:     Yes       Ves     No       Natrix     Date       Sanpled     Sampled       Sanpled     Sampled       Sanpled     Sampled       Sanpled     Sampled       Sander     No       Natrix     Date       Sampled     Sampled       Sampled	ANALYSIS REQUE	Preservative Codes       None: NO     DI W ater: H2O       Cool: Cool     MeOH: Me       HCL: HC     HNO 3; HN       H350 4; H2     NaOH: Na       H350 4; H2     NaOH: Na       NaHSO 4; NABIS     Na35 203; NaSO 3       Zn Acetate+NaOH: Zn     NaOH: Asocrbic Acid: SAPC
Per:     Per:     Productine     Rush     Production       no:     Due Date:     Due Date:     Due day received by 430pm       ne:     Tar starts the day received by the lab, if received by 430pm     Tar starts the day received by 430pm       re:     Temp Blank:     Ves No     Wet Ics:     Yes No       vvod intact:     Yes No     With Temperature Reading:     Yes No       vy Seals:     Yes No     With Temperature:     Yes No       vy Seals:     Yes No     With Temperature:     Yes No       vy Seals:     Yes No     With Temperature:     Yes No       visition     Matrix     Date     Time     Depth       el dentification     Matrix     Sampled     Sampled     Sampled       .7 / 6010     200.8 / 6020:     8RCRA     13PPM Texas 11 Al	890-6947 Chain of Custody	None: NO     DI Water: H <sub>2</sub> O       Cool: Cool     MeOH: Me       HCL: HC     HNO 3; HN       H <sub>2</sub> SO 4; HP     NaOH: Na       NaHSO 4; NPBIS     Na>CH: NaOH: Na       Na+SO 4; HP     NaOH: Na       Na 2S 2O3; NaSO 3     Zn Acetate+NaOH: Zn       NaOH+Ascorbic Acid: SAPC
Due Date:     Due Date:       i.Name:     Tar starts the day received by       i.Name:     Tar starts the day received by       i.Name:     Tar starts the day received by       i.Name:     RECEIPT       i.Received Intact:     Temp Blank:       ves< No	890-6947 Chain of Custody	Cool: Cool MeOH: Me HCL: HC HNO <sub>3</sub> : HN H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub> NaOH: Na H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Name:     TAT starts the day received by 4:30pm       ERECEIPT     Temp Blank:     Vest lce:     Vest No       Received Intact:     Vest No     Wet lce:     Vest No       Istody Seals:     Yes No     Vest No     Wet lce:     Vest No       Istody Seals:     Yes No     Vest No     Met lce:     Vest No       Internometer ID:     Time     Date     Time     Met lce:       Internometer ID:     Correction Factor:     2.3     1       Internometer ID:     Correction Factor:     2.3     1       Internometer ID:     Correction Factor:     3.3     1       Internometer ID:     Correction Factor:     3.3     1       Internometer ID:     Time     Depth     Graph     4.0       Internometer ID:     Time     Depth     1.1     X       Internometer ID:     Depth     Depth     1.1     X <td>890-6947 Chain of Custody</td> <td>HCL: HC HNO 3; HN H2SO 4; H 2 NaOH: Na H3PO 4; HP NaHSO 4; NABIS Na 25 203; NaSO 3 Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC</td>	890-6947 Chain of Custody	HCL: HC HNO 3; HN H2SO 4; H 2 NaOH: Na H3PO 4; HP NaHSO 4; NABIS Na 25 203; NaSO 3 Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
ERECEIPT     Temp Blank:     Yes     No     Wet Ice:     Yes     Yes     No       Istody Seals:     Yes     Yes     No     Mat     Correction Factor:     -0     -0       ustody Seals:     Yes     Yes     No     Mat     Emperature Reading:     -0     -0       ustody Seals:     Yes     No     Mat     Temperature Reading:     -0     -0     -0       ustody Seals:     Yes     No     Mat     Temperature Reading:     -0     -0     -0       ustody Seals:     Yes     No     Mat     Time     -0     -0     -0       ustody Seals:     Yes     No     Mat     Time     -0     -0     -0       ustody Seals:     Yes     No     Mat     -0     -0     -0     -0       ustody Seals:     Yes     No     No     -0     -0     -0     -0       ustody     Sampled     Sampled     Sampled     Sampled     -0     -0     -0       S     No     No     No     -0     -0     -0     -0     -0       S     No     No     No     -0     -0     -0     -0     -0       S     No     No     -0	890-6947 Chain of Custody	H3D04: HP H3D04: HP NaH5O4: NABIS Na <sub>5</sub> 203: NASO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Exterint     Temp Blank:     (Yes No     Wet Ice:     Area     Area       Istody Seals:     Yes No     UNA     Thermometer ID:     ThYMY KI     Received Intact:     0.0       Istody Seals:     Yes No     UNA     Temperature Reading:     0.0     0.0       Intariners:     Correction Factor:     0.0     0.0     0.0     0.0       Italiners:     Corrected Temperature:     0.0     0.0     0.0       Italiners:     Corrected Temperature:     0.0     0.0     0.0       Italiners:     Date     Time     Depth     Grab/     0.0       Italian     Sampled     Sampled     Sampled     Depth     Italian       Italian     Sampled     Sampled     Sampled     Italian     Italian       Italian     Sampled     Sampled     Sampled     Italian     Italian       Italian     Sampled     Sampled     Sampled     Italian	890-6947 Chain of Custody	n3-0-4: nr NaHSO 4: NABIS Na 25 203: NaSO 3 Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Received Intact: Ves No VIA Temperature Reading: 2.1 VPV VIA Correction Factor: -0.2 Correction Factor: -0.2 Correction Factor: -0.2 Corrected Temperature Reading: 2.2 Corrected Temperatures: 3.0 Control Factor F	890-6947 Chain of Custody	Na 25 20 3: NaSO 3 Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Astrony Joans.     Test No     MA     Temperature Reading:     2::2       Austroly Seals:     Yes No     UNA     Temperature Reading:     2::2       Attainers:     Corrected Temperature     Corrected Temperature     2::2     2::2       Simple Identification     Matrix     Date     Time     Depth     Grab/ Comp     # of       Simple Identification     Matrix     Sampled     Simpled     1     X       Simple Identification     Matrix     Sampled     1     X     1     X       Simple Identification     Simpled     Simpled     1     X     1     X       Simple Identification     Simpled     Simpled     1     X     1     X       Simple Identification     Simpled     Simpled     1     X     1     X		Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
And the function     Matrix     Date Sampled     Time comp.     A comp.       ample Identification     Matrix     Date Sampled     Sampled     Pepth     Gaab.     # of for the form comp.       S     S     Pate     Time     Depth     Comp.     Cont.     Y       S     Pate     Time     Depth     Comp.     Cont.     Y       S     Pate     Time     Depth     Comp.     Cont.       S     Pate     Time     Depth     Cont.     Y       S     Pate     Time     Depth     Cont.     Y       S     Pate     Time     Depth     Cont.     Y       S     Pate     Time     Time     Time     Y       S     Pate     Time     Time     Time     Y       S     Pate     Time     Time     Time     Y       Pate     Pate     Pate     Pate     Time     Y       Pate     Pate     Pate     Pate     Pate     S		NaOH+Ascorbic Acid: SAPC
Sample Identification     Matrix     Date Sampled     Time Sampled     Depth Comp Cont     Cont       SS     7     7     7     7     7     7       SS     7     7 <td< td=""><td></td><td></td></td<>		
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Released to Imaging: 9/6/2024 10:33:04 AM

# Login Sample Receipt Checklist

Client: R360 ES Holdings Inc

### Login Number: 6947 List Number: 1 Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

13

#### Job Number: 890-6947-1

List Source: Eurofins Carlsbad

Job Number: 890-6947-1

# Login Sample Receipt Checklist

Client: R360 ES Holdings Inc

Login Number: 6947 List Source: Eurofins Midland List Number: 2 List Creation: 07/23/24 08:17 AM Creator: Vasquez, Julisa

		List Source: Euronins Midland	
		List Creation: 07/23/24 08:17 AM	5
Answer	Comment		
N/A			
N/A			
True			8
True			
True			9
True			
True			13
True			
N/A			
True			
N/A			
	N/A N/A True True True True True True True True	N/A N/A True True True True True True True True	Answer       Comment         N/A       N/A         N/A       True         True       True         True



August 26, 2024

NICHOLAS POOLE TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: R360 RED BLUFF

Enclosed are the results of analyses for samples received by the laboratory on 08/23/24 8:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



#### Analytical Results For:

TETRA TECH NICHOLAS POOLE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	08/23/2024	Sampling Date:	08/22/2024
Reported:	08/26/2024	Sampling Type:	Soil
Project Name:	R360 RED BLUFF	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02878	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - ORLA, TX		

#### Sample ID: BACKFILL COMPOSITE (H245141-01)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	08/23/2024	ND	2.23	112	2.00	6.88	
Toluene*	<0.050	0.050	08/23/2024	ND	2.13	106	2.00	6.28	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.10	105	2.00	5.95	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.23	104	6.00	6.09	
Total BTEX	<0.275	0.275	08/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/23/2024	ND	400	100	400	7.69	
ТРН ТХ1005	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	08/23/2024	ND	227	113	200	3.24	
DRO >C12-C28	<25.0	25.0	08/23/2024	ND	205	103	200	6.54	
DRO >C28-C35	<25.0	25.0	08/23/2024	ND					
Total TPH C6-C35*	<25.0	25.0	08/23/2024	ND	438	110	400	6.27	
Surrogate: 1-Chlorooctane	68.1	% 48.6-15	3						
Surrogate: 1-Chlorooctadecane	77.3	% 41.9-17	0						

#### Cardinal Laboratories

\*=Accredited Analyte

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mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Name: A DL DL	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	Laboratories

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District III

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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

Action 379384

QUESTIONS		
Operator:	OGRID:	
COG OPERATING LLC	229137	
600 W Illinois Ave	Action Number:	
Midland, TX 79701	379384	
	Action Type:	
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

#### QUESTIONS

Prerequisites		
Incident ID (n#)	nAB1715742101	
Incident Name	NAB1715742101 WEST BRUSHY 8 FEDERAL SWD #001 @ 30-015-31675	
Incident Type	Produced Water Release	
Incident Status	Reclamation Report Received	
Incident Well	[30-015-31675] WEST BRUSHY 8 FEDERAL SWD #001	

#### Location of Release Source

Please answer all the questions in this group.		
Site Name	WEST BRUSHY 8 FEDERAL SWD #001	
Date Release Discovered	05/27/2017	
Surface Owner	Federal	

#### 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	Νο	
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	

Nature and Volume of Release Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission Crude Oil Released (bbls) Details Not answered. Cause: Corrosion | Flow Line - Injection | Produced Water | Released: 30 BBL | Recovered: Produced Water Released (bbls) Details 20 BBL | Lost: 10 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 Not answered. Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

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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

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QUESTIONS, Page 2

Action 379384

**QUESTIONS** (continued) Operator: OGRID: COG OPERATING LLC 229137 600 W Illinois Ave Action Number: Midland, TX 79701 379384 Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 se	afety 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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of raluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a	nowledge and understand that pursuant to OCD rules and regulations all operators are required ses which may endanger public health or the environment. The acceptance of a C-141 report by dequately investigate and remediate contamination that pose a threat to groundwater, surface 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: Christian LLuLL Title: Project Manager

Email: christian.llull@tetratech.com

Date: 08/29/2024

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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 3

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Action 379384

**QUESTIONS** (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379384
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

#### QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 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	id 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)	Between 1 and 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	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

#### Remediation Plan

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.		
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report de	emonstrating 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 vertic	al extents of contamination been fully delineated	Yes
Was this release entirely c	contained 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)	9460
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	211
GRO+DRO	(EPA SW-846 Method 8015M)	211
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.3
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11	, , , , , , , , , , , , , , , , , , ,	0 ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
Per Subsection B of 19.15.29.11 which includes the anticipated tin	NMAC unless the site characterization report includes complete	
Per Subsection B of 19.15.29.11 which includes the anticipated tin On what estimated date w	NMAC unless the site characterization report includes complet nelines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
Per Subsection B of 19.15.29.11 which includes the anticipated tin On what estimated date w On what date will (or did) t	NMAC unless the site characterization report includes complete nelines for beginning and completing the remediation. ill the remediation commence	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 08/01/2024
Per Subsection B of 19.15.29.11 which includes the anticipated tin On what estimated date w On what date will (or did) t On what date will (or was)	NMAC unless the site characterization report includes complete nelines for beginning and completing the remediation. ill the remediation commence he final sampling or liner inspection occur	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 08/01/2024 08/01/2024
Per Subsection B of 19.15.29.11 which includes the anticipated tim On what estimated date w On what date will (or did) t On what date will (or was) What is the estimated surf	NMAC unless the site characterization report includes complete nelines for beginning and completing the remediation. ill the remediation commence he final sampling or liner inspection occur the remediation complete(d)	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 08/01/2024 08/01/2024 08/15/2024
Per Subsection B of 19.15.29.11 which includes the anticipated tim On what estimated date w On what date will (or did) t On what date will (or was) What is the estimated surf What is the estimated volu	NMAC unless the site characterization report includes completine inelines for beginning and completing the remediation. ill the remediation commence the final sampling or liner inspection occur the remediation complete(d) ace area (in square feet) that will be reclaimed	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 08/01/2024 08/01/2024 08/15/2024 20700
Per Subsection B of 19.15.29.11 which includes the anticipated tim On what estimated date w On what date will (or did) t On what date will (or was) What is the estimated surf What is the estimated volu What is the estimated surf	NMAC unless the site characterization report includes completine inelines for beginning and completing the remediation. ill the remediation commence he final sampling or liner inspection occur the remediation complete(d) ace area (in square feet) that will be reclaimed ime (in cubic yards) that will be reclaimed	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 08/01/2024 08/01/2024 08/15/2024 20700 1920

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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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 379384

QUESTIONS (continued)		
Operator: COG OPERATING LLC 600 W Illinois Ave	OGRID: 229137 Action Number:	
Midland, TX 79701	379384 Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	
QUESTIONS		
Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the		
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:	
(Select all answers below that apply.)		
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]	
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	No	
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	No	

OTHER (Non-listed remedial process) No
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	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetratech.com Date: 08/29/2024

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 379384

QUESTIONS (continued)		
Operator: COG OPERATING LLC	OGRID: 229137	
600 W Illinois Ave Midland, TX 79701	Action Number: 379384	
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	
QUESTIONS		

Deferral Requests Only

Defendant Requeede entry		
Only answer the questions in this group if seeking a deferral upon approval this submission. Each 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	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

QUESTIONS, Page 6

Action 379384

QUESTIONS (continued)	
Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379384
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	367769
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/31/2024
What was the (estimated) number of samples that were to be gathered	75
What was the sampling surface area in square feet	20865

#### **Remediation Closure Request**

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	19890
What was the total volume (cubic yards) remediated	1850
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	19890
What was the total volume (in cubic yards) reclaimed	1850
Summarize any additional remediation activities not included by answers (above)	Following excavation, confirmation floor and sidewall samples were collected from the entire remediated area and submitted for laboratory analysis to verify efficacy of remediation activities. Per the NMOCD approved confirmation sampling plan, confirmation samples were collected such that each discrete sample (sidewall and floor) was representative of no more than 400 square feet of excavated area. The combined remediated extent had a surface area of approximately 19,890 square feet. A total of fifty-one (51) confirmation floor sample locations and twenty-two (22) confirmation sidewall sample locations were collected for laboratory analysis during remedial activities.
	losure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents

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

	Name: Christian LLuLL
I hereby agree and sign off to the above statement	Title: Project Manager
Thereby agree and sign on to the above statement	Email: christian.llull@tetratech.com
	Date: 08/29/2024

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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

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QUESTIONS, Page 7

Action 379384

**QUESTIONS** (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379384
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)
QUESTIONS	
Reclamation Report	

Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	19890
What was the total volume of replacement material (in cubic yards) for this site	1850
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less th mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	08/07/2024
Summarize any additional reclamation activities not included by answers (above)	Once acceptable confirmation sample results were received, the excavation was backfilled with clean material to pre-release grade. In accordance with 19.15.29.12 NMAC, the reclaimed area contained a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0. The soil cover included a top layer consisting of one foot of suitable material to establish vegetation at the site. The backfilled areas in the pasture were seeded following backfilling, to aid in revegetation.
	eclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form t field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required ises 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 ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ng notification to the OCD when reclamation and re-vegetation are complete.
I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetratech.com Date: 08/29/2024

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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

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**QUESTIONS** (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379384
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

#### QUESTIONS

Revegetation Report

Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied

Requesting a restoration complete approval with this submission

No Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.

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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

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379384
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

#### CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation closure and reclamation report approved.	9/6/2024
bhall	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	9/6/2024
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	9/6/2024
bhall	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	9/6/2024

CONDITIONS

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