

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# nAB1619432451
2RP-3774

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 approximate release point coordinates are 32.063500°, -103.997560°, as shown on Figures 1 and 2. The release extent provided in prior reporting is located approximately 450 feet northeast of the coordinates provided in the initial spill report. 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 July 3, 2016. The release was caused by a damaged poly flowline. This release occurred in the pasture alongside the road and consisted of approximately 25 bbls of produced water of which 0 bbls were recovered. The initial C-141 states that the dry weather and soil conditions made recovery of fluid difficult. The faulty portion of the line was cut out and replaced during the initial response actions. The approximate release extent is shown in Figure 3.

The NMOCD approved the initial C-141 on July 11, 2016, and subsequently assigned the release the Incident ID nAB1619432451 and the remediation permit (RP) number 2RP-3774. 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.

HISTORICAL FILE REVIEW

The NMOCD online imaging files associated with 2RP-3774 include a Sundry Notice of Intent (Form 3160-5) for remediation activities submitted by COG on July 8, 2016. NMOCD district II staff conducted a site inspection for the nAB1619432451 incident and documented their findings in a Site Inspection Photo Documentation Report dated July 12, 2016. Copies of the Sundry Notice and the NMOCD photo documentation report are included in the Remediation Work Plan dated January 29, 2024, available on the NMOCD permitting website.

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Email correspondence discovered in the NMOCD online imaging files for an adjacent and overlapping release at the West Brushy 8 Federal SWD #001 (nAB1715742101/2RP-4240) included additional information regarding the nAB1619432451/2RP-3774 release. An email chain from February-March, 2017, between the NMOCD and BBC International, Inc. (BBC) indicates that BBC, on behalf of COG, submitted a remediation proposal for the nAB1619432451/2RP-3774 release that would also address an earlier release at the Site (nAB1529948530/2RP-3353). In regard to this remediation proposal and nAB1619432451/2RP-3774, Mr. Mike Bratcher of the NMOCD states in an email dated February 9, 2017:

"This release that BBC has submitted a remediation proposal on (2RP-3774) covered an earlier release at this site (2RP-3353), only this one covered a much larger area than the first one. The second attachment is what was submitted to OCD at the time, and it was COG's stance then, that the site could not be delineated or remediated due to the gas lines and flowlines that ran through the area. COG had requested a deferral. This may be a question for Cliff, but with the gas lines that have been identified on the plat, and the obvious dozen or so surface poly lines that run through the release area, is the proposed remediation going to be able to accomplish? If so, I suggest that once completed, the closure also include the first release, and possibly get them both closed."

In an email dated March 1, 2017, Mr. Cliff Brunson of BBC responded:

"We are still confirming that we will be able to accomplish the approved remediation by attempting to set a meeting with the line operators and verify that a two foot excavation mostly by hand will be acceptable to them and if so, then yes, we will incorporate the first release (2RP-3353) in the closure. I will keep you updated."

In an email dated June 13, 2017 regarding a subsequent release (nAB1715742101/2RP4240), Ms. Crystal Weaver of the NMOCD requested an update on the status of the nAB1619432451/2RP-3774 release. Included in an email approval of the delineation work plan for the nAB1715742101/2RP4240 on February 16, 2018, Ms. Weaver states:

"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."

Follow-up email correspondence from Mike Bratcher of the NMOCD on February 22, 2018 included the following information:

"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.

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

2017 BBC SITE ASSESSMENT AND WORK PLAN APPROVAL

The approved remediation proposal for nAB1619432451/2RP-3774 and nAB1529948530/2RP-3353 that Mr. Bratcher refers to in this email from February 22, 2018, is not included in the NMOCD online incident files for either release incident, and ConocoPhillips was not able to locate a copy in a review of historical COG files. The submission of this remediation proposal is documented in the February 7, 2017 email from Mr. Cliff Brunson to Mr. Bratcher, but the proposal document included as an attachment to this email was not available in the copy of the email chain that Tetra Tech located. Tetra Tech contacted Mr. Brunson of BBC to request a copy of the file, but he was not able to provide a copy of the remediation proposal either. However, Mr. Brunson was able to provide laboratory analytical data associated with initial assessment activities performed at the Site in January 2017.

The January 2017 laboratory analytical report indicates that BBC personnel conducted release assessment activities on January 19-20, 2017. Soil samples were collected from twelve (12) locations within the release extent (SP1 through SP12) and four (4) locations along the perimeter of the release (East, West, South, and North Samples). The BBC sampling locations were provided in subsequent closure reporting for the release and are presented in Figure 3 of this report.

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. A copy of the laboratory analytical report is included in the Remediation Work Plan dated January 29, 2024, available on the NMOCD permitting website.

Analytical results associated with samples collected during the 2017 BBC assessment activities are summarized in Table 1. 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).

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 plans for each release. Areas of the release extent were reportedly excavated to 2-3 feet bgs in accordance with the approved remediation proposal. Photographs of the excavated and backfilled areas were included in the Closure Report. A copy of the Closure Report is included in the Remediation Work Plan dated January 29, 2024, available on the NMOCD permitting website.

The figure provided in the Closure Report for Incident nAB1619432451 indicates that the majority of the release extent was excavated to 2 feet bgs. The area of SP9 was excavated to 3 feet bgs with a field titration sample to establish that a chloride concentration of 1,000 ppm was achieved. The areas characterized by sample locations SP1-SP2 and SP3-SP4 were below reclamation limits and did not require remedial action.

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The Closure Report for four separate releases that occurred at the West Brushy 8 Federal SWD #001 Site, including Incident nAB1619432451, was submitted on January 22, 2019. The Closure Report was rejected by NMOCD for Incident nAB1619432451 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."

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 associated 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 remediated area reported by BBC in the 2019 Closure Report map for the nAB1619432451 release incident was corroborated by the photographs included in the Closure Report as well as observations made during the 2023 visual site inspections. 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. Portions of the remediated extent are located in areas of active oil and gas operations that are not intended for vegetative growth until final reclamation takes place. The remediated areas observed in the photographic documentation included with the 2019 BBC Closure Report are presented in Figure 4.

SITE CHARACTERIZATION

The Site Characterization performed by BBC at the time of the assessment activities (and ensuing proposed work plans) for the other three (3) release incidents included in the 2019 BBC Closure Report 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 work plans were 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 $\frac{1}{2}$ 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.

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REGULATORY FRAMEWORK

Based upon the lack of groundwater data within a ½ 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 site characterization, depth to groundwater, 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	Reclamation Requirements
Chloride	600 mg/kg
TPH	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 nAB1619432451 release Site, as well as the two adjacent and overlapping historical releases (incident IDs nAB1715742101 and nAB1529948530). The nAB1619432451 release extent largely encompasses both of the other two historical release footprints. 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 of the overlapping nAB1715742101 incident.

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, the 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).

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.

All 2023-2024 sampling locations are presented along with the nAB1715742101 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

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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 which exceeded the reclamation limits were those associated with trench locations T-24-1 through T-24-7, T-24-10 through T-24-11, and T-24-13 through T-24-15. Horizontal and vertical delineation of the release extent using Table I of 19.15.29.12 NMAC constituents was achieved in accordance with 19.15.29.11(5) NMAC as a result of the 2023-2024 sampling events.

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 nAB1619432451 incident, which is the subject of this report, as well as the two adjacent and overlapping historical releases (incident IDs nAB1715742101 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 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

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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 requests 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 nAB1619432451 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.

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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, TX.

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-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 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.

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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.

Samantha K. Abbott, P.G Project Manager

 $Mr.\ Ike\ Tavarez-ConocoPhillips$

Ms. Shelly Taylor, BLM

Christian M. Llull, P.G. Program Manager

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LIST OF ATTACHMENTS

Figures:

Figure 1 – Overview Map

Figure 2 – Topographic Map

Figure 3 – Approximate Release Extent and Site Assessment (BBC)

Figure 4 – Remediation Extents (BBC)

Figure 5 – Additional Delineation (TT 2023-2024)

Figure 6 – 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

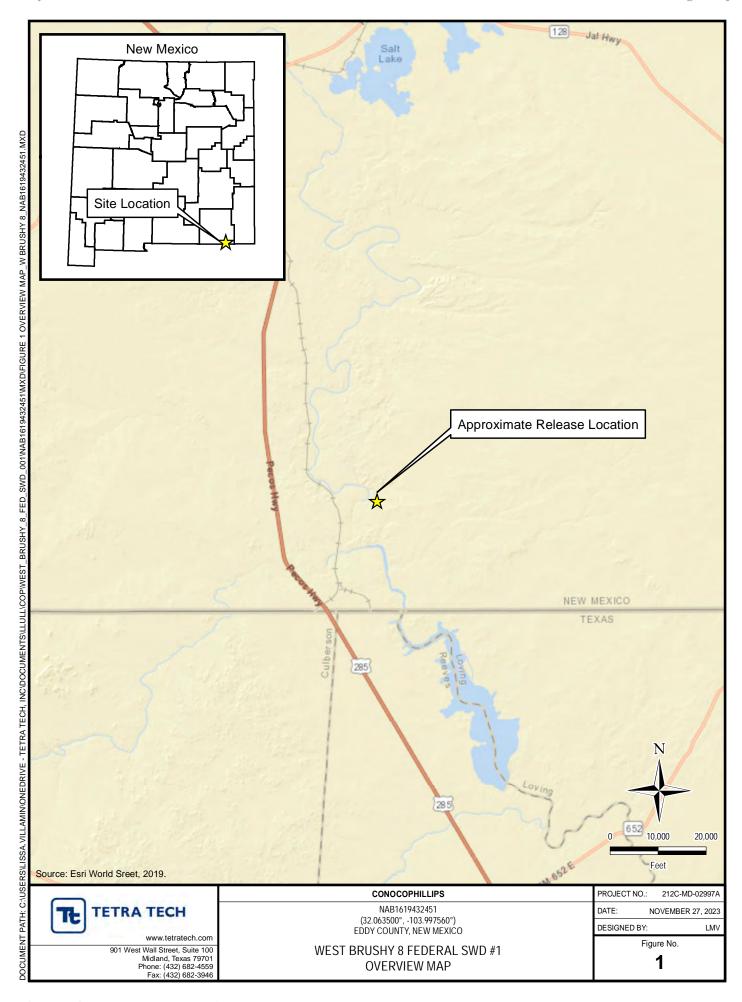
Appendix B - Site Characterization Data

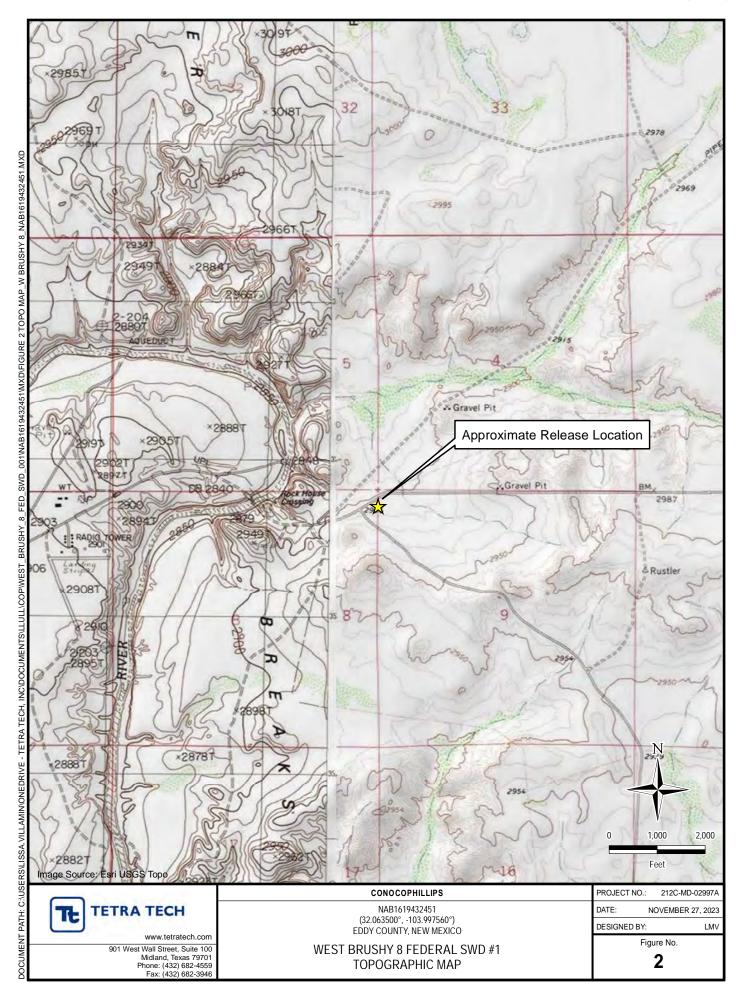
Appendix C – Regulatory Correspondence

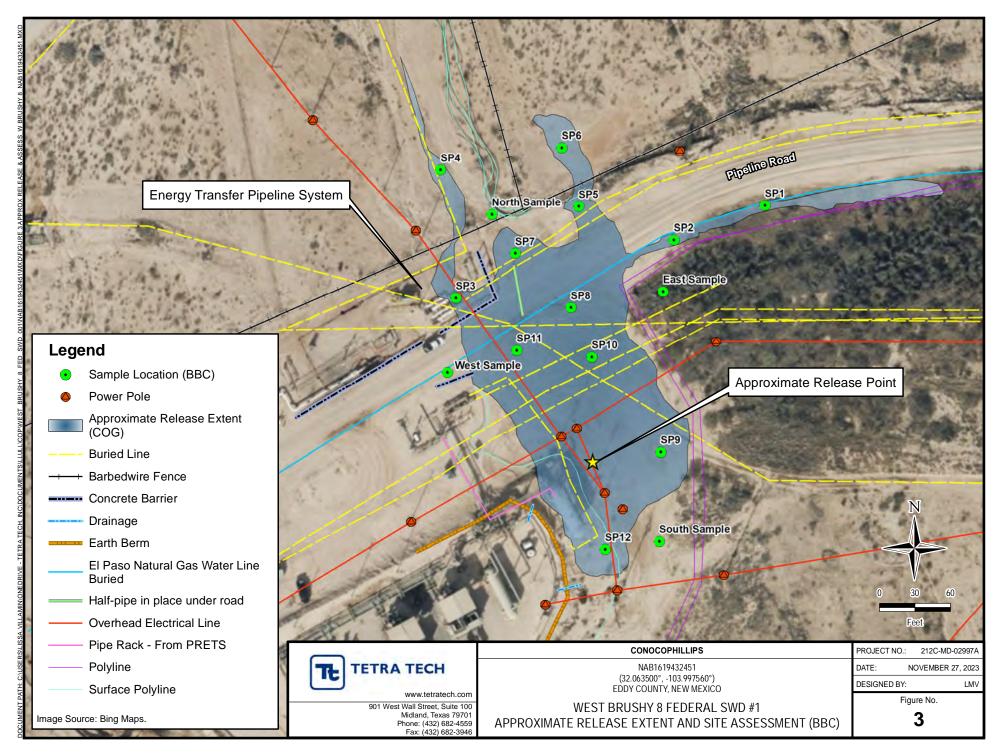
Appendix D – Photographic Documentation

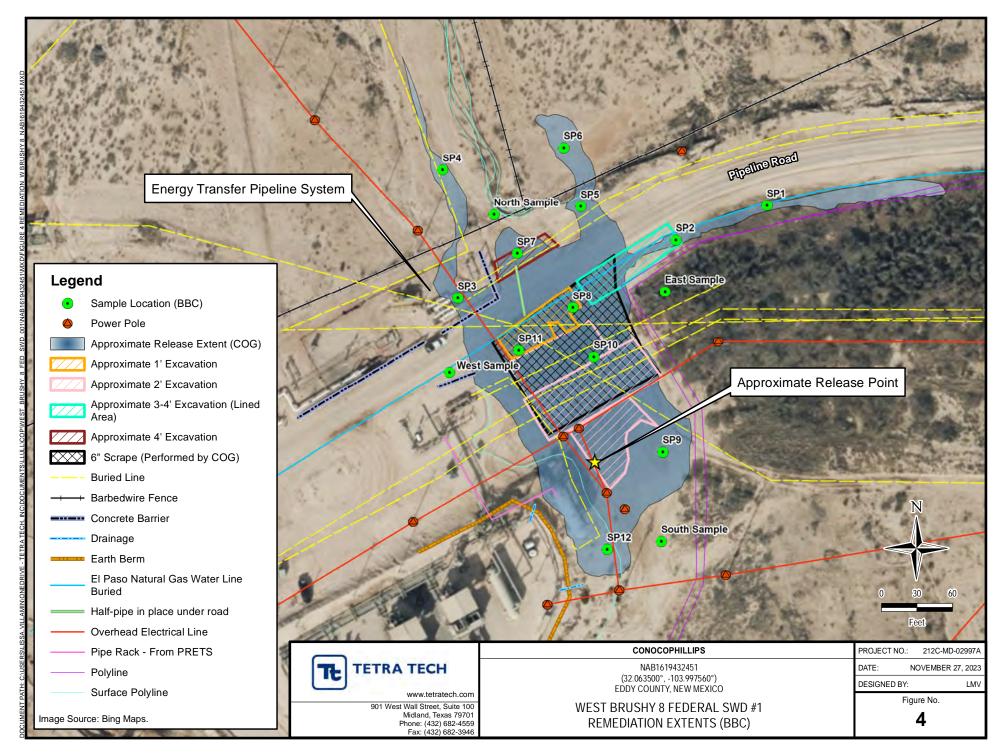
Appendix E - Laboratory Analytical Data

FIGURES

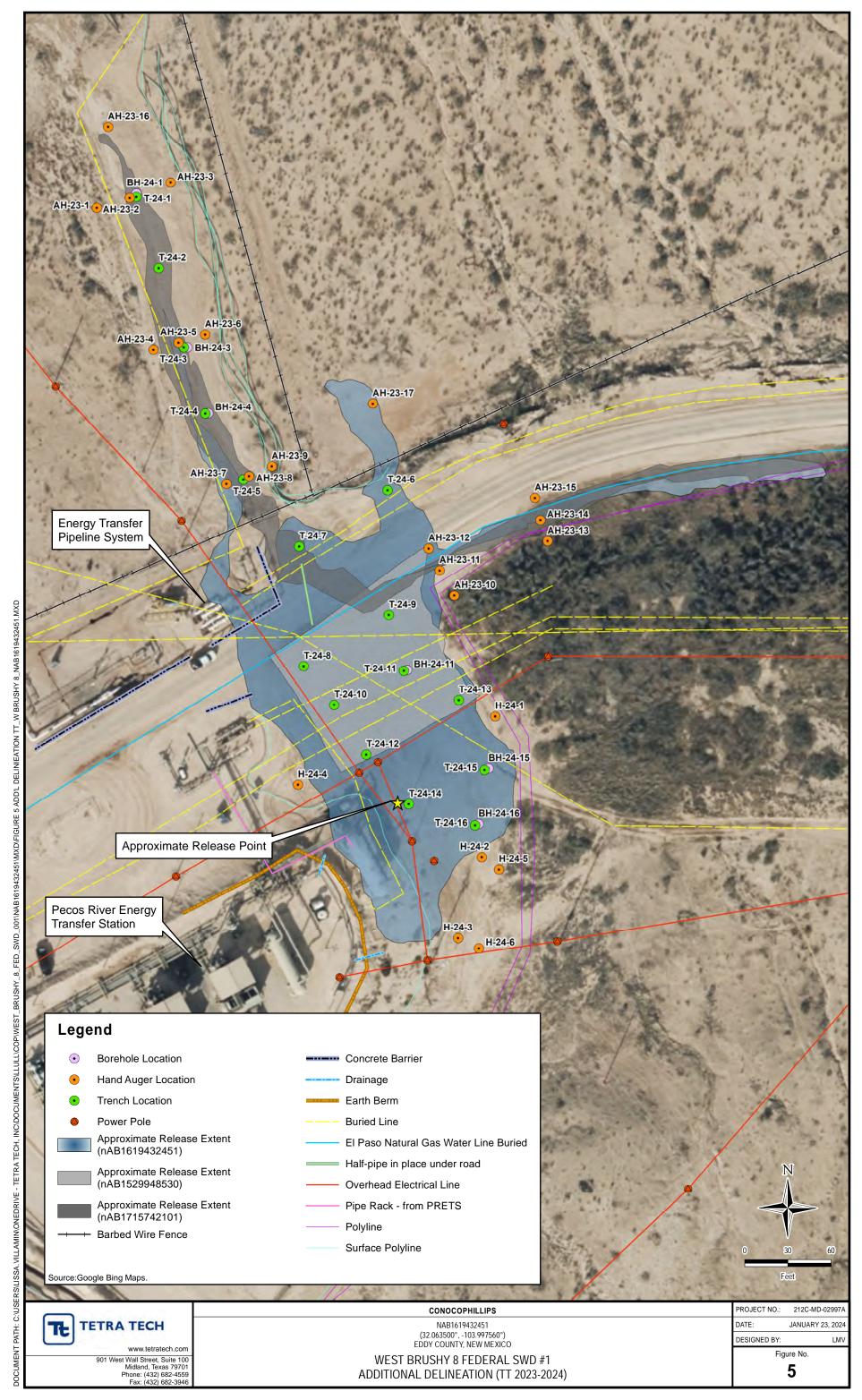


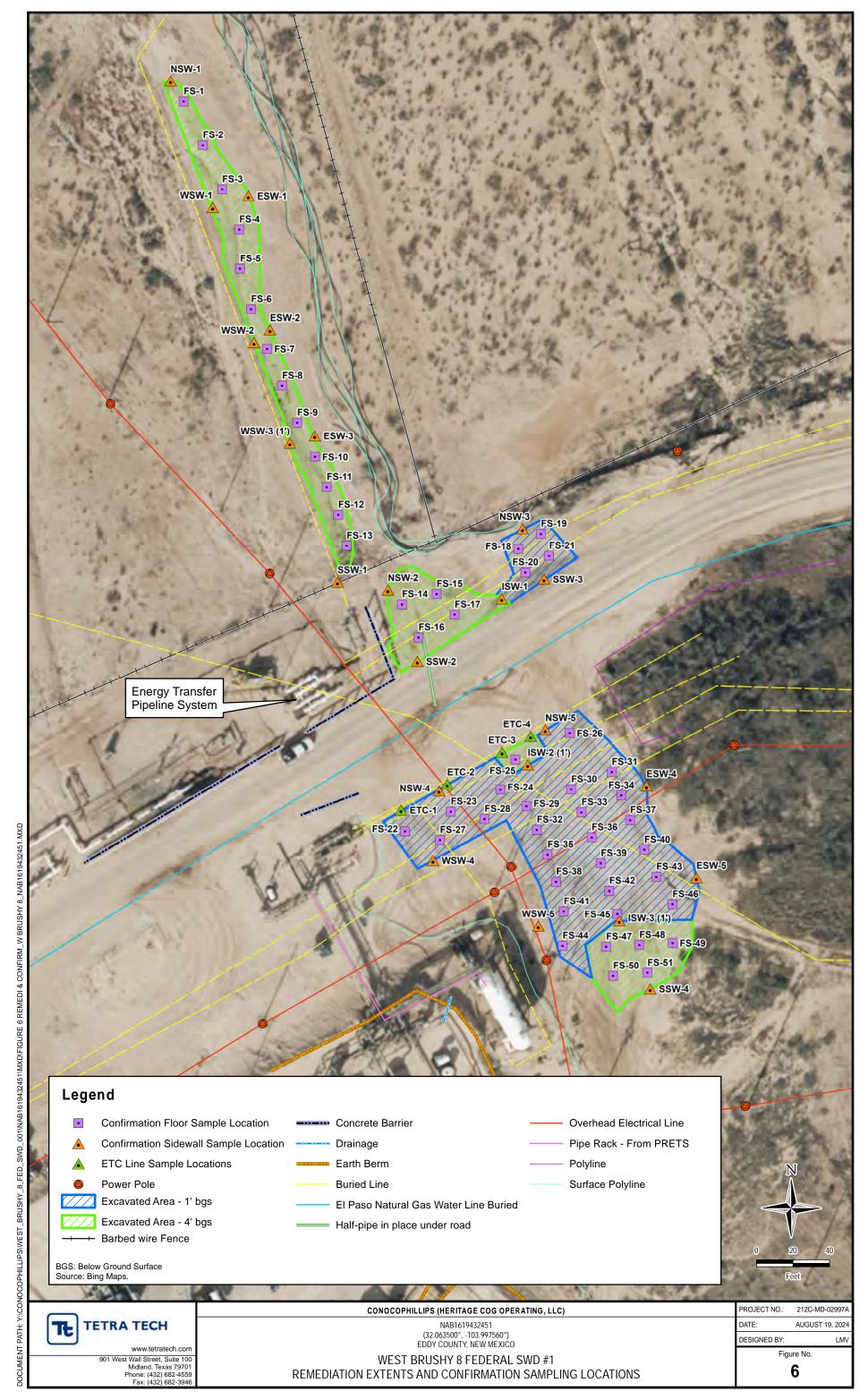






Received by OCD: 8/29/2024 12:39:53 PM





SUMMARY OF ANALYTICAL RESULTS

2017 BBC SOIL ASSESSMENT- nAB1619432451

CONOCOPHILLIPS

West Brushy 8 SWD #001 EDDY COUNTY, NM

									ВТЕХ	2							т	PH ³	
Cample ID	Camaria Data	Sample Depth	Chlor	ride	Danasa		Talvan	_	FAb. db a.c.		Total Vidence	TatalD	TEV	GRO		DRO		EXT DRO	Total TPH
Sample ID	Sample Date				Benzei	ne	Toluen	ie	Ethylben	zene	Total Xylenes	Total B	TEX	C ₆ - C	10	> C ₁₀ -	C ₂₈	> C ₂₈ - C ₃₆	(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
SP1	1/19/2017	Surface	272		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
31 1	1/13/2017	1	48		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
SP2	1/19/2017	Surface	224		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
3F2	1/19/2017	1	16		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
SP3	1/19/2017	Surface	16		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
323	1/19/2017	1	48	QR-03	N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
CD4	1/10/2017	Surface	80		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
SP4	1/19/2017	1	16		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
		Surface	14,600		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
SP5	1/19/2017	1	608		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
		2	96		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
		Surface	10,400		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
SP6	1/10/2017	1	2,360		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
326	1/19/2017	2	704		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
		3	<16.0		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
		Surface	9,800		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
SP7	1/20/2017	1	2,920		<0.050		<0.050		<0.050		<0.150	<0.300		<10.0		14.9		N/A	14.9
387	1/20/2017	2	592		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
		3	<16.0		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
		Surface	6,480		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
SP8	1/20/2017	1	368		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
360	1/20/2017	2	2,560		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
		3	32		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
		1	5,440		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
SP9	1/20/2017	2	7,040		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
31 3	1/20/2017	4	960		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
		5	<16.0		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
		1	11,600		<0.050		<0.050		<0.050		<0.150	<0.300		<10.0		<10.0		N/A	<10.0
SP10	1/20/2017	2	4,000		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
3. 10	1, 20, 201,	3	352		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
		4	288		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
		Surface	5,600		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
SP11	1/20/2017	1	352		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
		2	352		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
		1	6,660		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
		2	6,930		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
SP12	1/20/2017	3	480		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
		4	80		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
		5	112		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
North Sample	1/20/2017	1	112		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
East Sample	1/20/2017	1	112		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
West Sample	1/20/2017	1	48		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A
			80		N/A		N/A		N/A		N/A	N/A		N/A		N/A		N/A	N/A

ft. Feet

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

bgs Below ground surface

mg/kg Milligrams per kilogram

<u>Qualifiers</u>

TPH Total Petroleum Hydrocarbons The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

GRO Gasoline range organics

DRO Diesel range organics Method SM4500Cl-B

Method 8021B Method 8015M

N/A Not Analyzed for Constituent

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 ²										TPH ³			
		Sample Depth	Resu	ults	Chloric	de	_				II						GRO		DRC)	EXT D	RO	(000 000)	Total TPH
			ExStik	Titration			Benzen	ie	Toluer	ne	Ethylbenze	ene	Total Xyle	enes	Total BT	EX	C ₆ - C ₁	10	> C ₁₀ -	C ₂₈	> C ₂₈ -	C ₃₆	(GRO+DRO)	(GRO+DRO+EXT DRO)
Sample ID	Sample Date	ft. bgs	ррі	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 mg/</u>	/kg	<u>10 mg/k</u>	k <u>q</u>							<u>50 mg/l</u>	k <u>q</u>			-					<u>100 mg/kg</u>
		RRAL for Soils >4' bgs (GW 50-100 ft):			<u>10,000 m</u>	g/kg	<u>10 mg/k</u>	k <u>q</u>							<u>50 mg/l</u>	k <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
	5/ = -/ = 5	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
1-24-2	1/4/2024	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
AH-23-3	9/21/2023	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	4/4/2024	3-4	2,730	-	3,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0
T-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
DI CA	4/40/222	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	1	<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0	†	<10.0		-	<10.0

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 ²					GRO DRO EXT DRO (GRO+DR						
		Sample Depth	Resu	ılts	Chloric	de					!!		=				GRO	DRO		EXT DRO	(000 000)	Total TPH
			ExStik	Titration			Benze	ne	Toluer	ne	Ethylbenz	ene	Total Xyl	lenes	Total BTEX		C ₆ - C ₁₀	> C ₁₀ - C ₂	28	> C ₂₈ - C ₃₆	(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>/kg</u>							<u>50 mg/kg</u>							<u>100 mg/kg</u>
		RRAL for Soils >4' bgs (GW 50-100 ft):			10,000 m	g/kg	<u>10 mg/</u>	<u>'kg</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	1/3/2024	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
An-23-11	9/21/2023	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
ALL 22.44	0/24/2022	0-1	198	-	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
AH-23-14	9/21/2023	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 24.6	4 /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 04.45	4 /5 /000	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

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 ²									TPH ³		
		Sample Depth	Resu	lts	Chloric	de					=.1 11						GRO	DRO		EXT DRO	(000 000)	Total TPH
			ExStik	Titration			Benzer	ne	Toluen	ie	Ethylbenz	ene	Total Xyle	enes	Total BT	EX	C ₆ - C ₁₀	> C ₁₀ - C ₂	28	> C ₂₈ - C ₃₆	(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:			600 mg/	<u>′kg</u>	<u>10 mg/</u>	<u>′kg</u>	-				-		<u>50 mg/k</u>	k <u>q</u>						<u>100 mg/kg</u>
		RRAL for Soils >4' bgs (GW 50-100 ft):			10,000 mg	g/kg	<u>10 mg/</u>	<u>kq</u>							<u>50 mg/k</u>	k <u>q</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 24.42	4 /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 44	4 /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 24.16	1 /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
		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
		9-10	1,470	580	896		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0		<10.0	-	<10.0
		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

1 Method SM4500Cl-B

2 Method 8021B3 Method 8015M

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

								BTEX ²					TPH ³	
		Sample Depth	Field Screen	ing Results	Chloride ¹						GRO	DRO	EXT DRO	Total TPH
Sample ID	Sample Date		Chloride	PID		Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	(GRO+DRO+EXT DRO)
		ft bgs	ррі	m	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Reclamation Closure Co	riteria for Soils 0-4 ft be	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

							BTEX ²					TPH ³	
		Sample Depth	Field Screening Res	Ilts Chloride ¹	_					GRO	DRO	EXT DRO	Total TPH
Sample ID	Sample Date		Chloride PID		Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	(GRO+DRO+EXT DRO)
		ft bgs	ppm	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Reclamation Closure Co	riteria for Soils 0-4 ft b	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 (G\	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-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	-	<u> </u>	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 Covers	ina Deculto				BTEX ²					TPH ³	
Sample ID	Sample Date	Sample Depth	Field Screen	ing Results	Chloride ¹	Benzene	Toluene	Ethylhonzono	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Total TPH
Sample 1D	Sample Date		Chloride	PID		benzene	Toluelle	Ethylbenzene	Total Aylenes	TOLAI BIEX	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	(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	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 RRAI	s for Soils >4 ft bgs (GV	N >50 ft):			<u>10,000 mg/kg</u>	<u>10 mg/kg</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 Fee

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

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.

Received by OCD: 8/29/2024 12:39:53 PM

TABLE 4

SUMMARY OF ANALYTICAL RESULTS

SOIL BACKFILL - R360 RED BLUFF FACILITY

CONOCOPHILLIPS

WEST BRUSHY 8 SWD #001

								BTEX ²	2								TI	PH ³		
Sample ID	Sample Date	Chlorid	e ¹	Benzer		Toluer		Ethylbenz	iono	Total Xyle	mac	Total BT	·EV	GRO		DRO		EXT DR	0	Total TPH
Sample ID	Sample Date			benzer	ie	roluen	e	Ethylbenz	zene	TOTAL AYE	enes	TOTAL BI	EX	C ₆ - C ₁	0	> C ₁₀ - 0	C ₂₈	> C ₂₈ - 0	-36	(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:

2

bgs Below ground surface

mg/kg Milligrams per kilogram

Total Petroleum Hydrocarbons TPH

GRO Gasoline range organics

DRO Diesel range organics

Method SM4500Cl-B 1 Method 8021B

Method 8015M

APPENDIX A C-141 Forms

NM OIL CONSERVATION

ARTESIA DISTRICT

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr.

JUL 08 2016

Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in **RECEIVED** ordance with 19.15.29 NMAC.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Surface Owner: Federal

220 S. St. Francis Dr., Santa Fe, NM 8/303	Santa I	Fe, NM 87505		
Release	e Notificatio	on and Corrective Action	on	
NAB 1419432451	a.a.a.	OPERATOR		Final Repo
Name of Company: COG Operating LLC	124137	Contact: Robert McNeill		
Address: 600 West Illinois Avenue, Midland T	X 7 9701	Telephone No. 432-230-0077		
Facility Name: West Brushy 8 Federal SWD #1		Facility Type: SWD		
	,		· · · · · · · · · · · · · · · · · · ·	

Mineral Owner: Federal API No. 30-015-31675

LOCATION OF RELEASE

Unit Letter	Section 8	Township 26S	Range 29E	Feet from the 660		South Line	Feet from the	East/Wes	l l	County Eddy
<u> </u>	L	200	1	<u> </u>			le -103.9986748		, , , , , , , , , , , , , , , , , , ,	Ludy
			Lati			-		32237		
CD CD				NAI	URE	OF REL			, , ,	1
Type of Release: Produced Water					Volume of Release: Volume Recovered: 0 bbls					
Source of Re				<u> </u>		Date and Hour of Occurrence: Date and Hour of Discovery:				
Poly Flowlin						7/3/2016 unknown 7/3/2016 12:00pm			::00pm	
Was Immedi	ate Notice (lvac 🔽	No □ Not R	aguirad	If YES, To Whom? Mike Bratcher – OCD / Shelly Tucker – BLM				
									— DUM	
By Whom? Was a Water		Frujillo Davis		 -		Date and Hour: 7/5/2016 10:31 AM If YES, Volume Impacting the Watercourse.				
was a water	course Reac		Yes 🗵] No		11 1125, V	nume impacting t	ine waterer	ourse.	
If a Watercon	ırse was Im	pacted, Desci	ibe Fully.	*			 .			
		- •	5							
}										
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*						
This release	was caused	by a damaged	l polv flou	line Dry weathe	r and soil	l conditions :	nade recovery of	fluid diffic	nilt.	
Timo reiedase	was caused	o, a camaget	, poly no	mic. Dry weather	and son	Conditions	nade recovery or	naid Girile		
Describe Area Affected and Cleanup Action Taken.*										
										ele contamination from the
release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.										
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and										
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger										
public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health										
or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other										
federal, state, or local laws and/or regulations.										
	,						OIL CON	<u>SERVA</u>	TION D	<u>IVISION</u>
Amando T. Dewis										
Signature: Approved by Environmental Specialist:										
Printed Name: Amanda Trujillo Davis										
Title: Senior Environmental Coordinator Approval Date: //// Expiration Date: N/A										
E-mail Address: atrujillo@concho.com Conditions of Approval: Remediation per O.C.D. Rules & Guideline's a										
E-man / tudi	oso: arrajine	om content to	<u></u>							
	8, 2016		one: 575-7	74 <u>8-6940</u>		SUBMIT	REMEDIATIO	N PROF	POSAL	
* Attach Addi	tional She	ets If Neces	sary			LATER T	HAN:Z/_	12/110)	2RP-3174

Received by OCD: 8/29/2024 12:39:53 PM From C-141 State of New Mexico Page 3 Oil Conservation Division

	Page 29 of 211
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?		
Did the release impact areas not 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 12:39:53 PM State of New Mexico
Page 4 Oil Conservation Division

Page	30 o	f 211
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Incident ID		
District RP		
Facility ID		
Application ID	•	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name:	_ Title:		
Signature:email:	Date:		
email:	Telephone:		
OCD Only			
Received by:	Date:		

Received by OCD: 8/29/2024 12:39:53 PM State of New Mexico
Page 5 Oil Conservation Division

w Mexico Incident ID

Incident ID		
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.	
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 		
Deferral Requests Only: Each of the following items must be con-	firmed as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.		
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 to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name:	Title:	
Signature: _ /// ///	Date:	
email:	Telephone:	
OCD Only		
oes om,		
Received by:	Date:	
Approved		
Signature:	Date:	

Received by OCD: 8/29/2024 12:39:53 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

	1 uge 32 0j 2
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.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC				
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)				
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)			
Description of remediation activities				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.				
Printed Name				
Signature: _ /4 7/3	Date:			
email:	Telephone:			
OCD Only				
Received by:	Date:			
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.				
Closure Approved by:	Date:			
Printed Name:	Title:			

APPENDIX B Site Characterization Data

OCD - Land Ownership



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

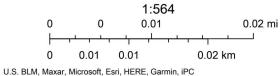
Mineral Ownership

Released to Imaging: 9/6/2024 10:27:57 AM

A-All minerals are owned by U.S.

Land Ownership

BLM



Received by OCD: 8/29/2024 12:39:53 PM National Flood Hazard Layer FIRMette





Legend

Without Base Flood Elevation (BFE) 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 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 | LILLI Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary** -- Coastal Transect Baseline **OTHER Profile Baseline FEATURES** Hydrographic Feature **Digital Data Available** No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

104°0'10"W 32°4'4"N Zone A AREA OF MINIMAL FLOOD HAZARD Eddy County 350120 35015C1850D eff. 6/4/2010

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.

point selected by the user and does not represent

an authoritative property location.

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, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

1:6,000

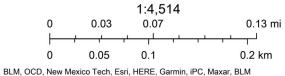
OCD - Karst Areas



9/26/2023, 10:23:19 AM

Karst Occurrence Potential







New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(In feet)

	POD			_	_								
POD Number	Sub- Code basin	County	_	Q (16	_	c Tw	Rng	x	Υ	Distance	_	-	Water Column
C 03507 POD1	С	ED	1	3	3 0	5 268	3 29E	593064	3548313 🌍	1611	140	78	62
C 03508 POD1	С	ED	1	3	3 0	5 268	3 29E	593063	3548361 🌍	1624	140	75	65

Average Depth to Water:

(NAD83 UTM in meters)

76 feet

Minimum Depth: 75 feet

Maximum Depth: 78 feet

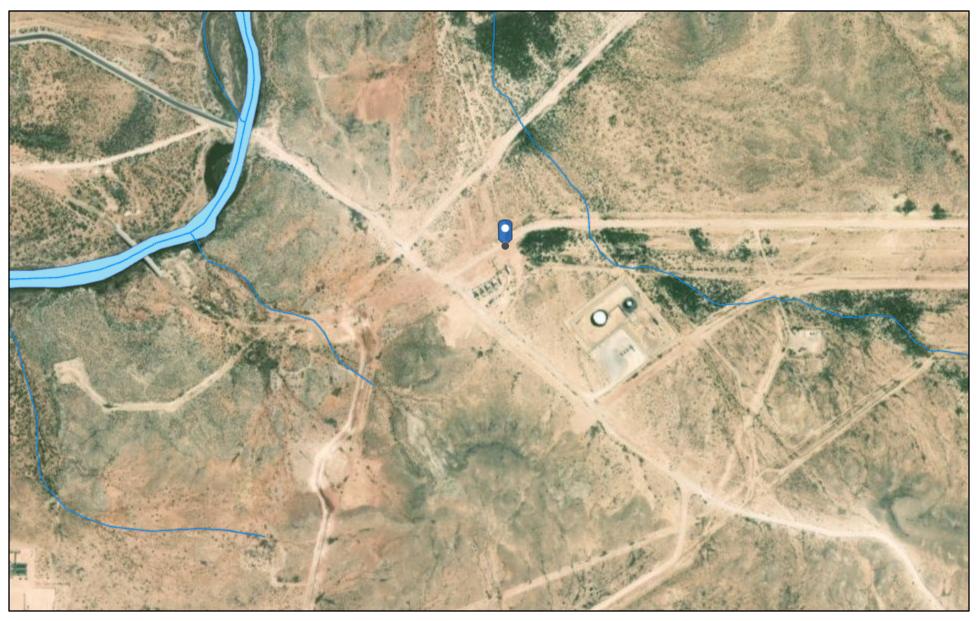
DEPTH TO WATER

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 594622.15 **Northing (Y):** 3547903.47 **Radius:** 1700

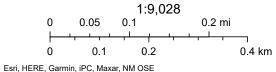
OCD Waterbodies



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

OSW Water Bodys

OSE Streams



New Mexico Oil Conservation Division

APPENDIX C Regulatory Correspondence

Chama, Sam

From: OCDOnline@state.nm.us

Sent: Wednesday, January 31, 2024 9:38 AM

To: Llull, Christian

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 309000

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



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#) nAB1619432451, 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.

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

To: Abbott, Sam; Enviro, OCD, EMNRD

Cc: <u>Llull, Christian</u>

Subject: RE: [EXTERNAL] Extension Request - West Brushy 8 Federal SWD #001 Remediation (Incident IDs

nAB1715742101 and nAB1619432451) Wednesday, May 1, 2024 8:37:44 AM

Attachments: <u>image001.png</u>

image002.png image003.png image004.png image005.png

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

Sam,

Date:

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

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

https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/.

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:
 Liull, 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: <u>image001.pnq</u>

image002.pnq image003.pnq image004.pnq image005.pnq image011.pnq image012.pnq image013.pnq image014.pnq image015.pnq image016.pnq Outlook-v2hu0l1w.pnq

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

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 2nd St Roswell, NM 88201

Direct 575.627.0250 Mobile 575.200.0614 <u>sitaylor@blm.gov</u>



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^{st} , 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 sitaylor@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 *Special Area of concern*:
- 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 sitaylor@blm.gov



Spill/Release email: BLM_NM_CFO_REALTY_SPILL@BLM.GOV

From: Taylor, Shelly J <sjtaylor@blm.gov>
Sent: Thursday, February 29, 2024 10:11 AM
To: Llull, Christian <Christian.Llull@tetratech.com>

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 2nd St Roswell, NM 88201

Direct 575.627.0250 Mobile 575.200.0614 sjtaylor@blm.gov



From: Llull, Christian < Christian.Llull@tetratech.com

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

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

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 < Christian.Llull@tetratech.com; Tucker, Shelly J <stucker@blm.gov>

Cc: Allen, Samantha <<u>SAMANTHA.ALLEN@tetratech.com</u>>

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

D	l٦	n
\mathbf{r}	ıa	П

Here is the KML.

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: Abbott, Sam

Sent: Wednesday, February 21, 2024 1:49 PM

To: Llull, Christian < Christian.Llull@tetratech.com; Tucker, Shelly J <stucker@blm.gov>

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 < Christian.Llull@tetratech.com

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

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

Cc: Abbott, Sam < Sam. Abbott@tetratech.com >; 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.
- Approval attached.
- 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 | christian.llull@tetratech.com

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From: <u>Hall, Brittany, EMNRD</u>

To: 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) Tuesday, July 30, 2024 2:26:14 PM

Date: Tuesday, July 30, 2 **Attachments:** <u>image001.png</u>

image002.png image003.png image004.png image005.png

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

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 https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/.

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)

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

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 22nd, July 26th, and continuing today, July 30th, and tomorrow, July 31st. More confirmation sampling may be required past July 31st 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: <u>Llull, Christian</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 363475

Date: Thursday, July 11, 2024 4:23:35 PM

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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#) nAB1619432451.

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: Please contact Samantha Abbott, PG

Project Manager

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: Hall, Brittany, EMNRD

To: Abbott, Sam; Llull, Christian

Cc: Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD

Subject: RE: [EXTERNAL] RE: The Oil Conservation Division (OCD) has accepted the application, Application ID: 363475

Date: Monday, July 29, 2024 12:40:39 PM

Attachments: image001.pnq

image002.png image003.png image004.png image005.png

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Sam,

The variance request for confirmation samples collected between 7/22-7/26/2024 is approved. Additional confirmation samples must be collected on the dates/times included on the C-141N(s).

Please include a copy of this email in the closure report.

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 https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/.

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Friday, July 26, 2024 4:36 PM

To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] RE: The Oil Conservation Division (OCD) has accepted the application,

Application ID: 363475

Same thing as the last one.

From: Abbott, Sam <<u>Sam.Abbott@tetratech.com</u>>

Sent: Friday, July 26, 2024 4:23 PM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>; ocdonline, emnrd, EMNRD

<<u>emnrd.ocdonline@emnrd.nm.gov</u>>

Cc: Llull, Christian < Christian.Llull@tetratech.com

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

Application ID: 363475

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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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From: OCDOnline@state.nm.us < OCDOnline@state.nm.us>

Sent: Thursday, July 11, 2024 4:23 PM

To: Llull, Christian < christian.llull@tetratech.com>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 363475

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#) nAB1619432451.

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: Please contact Samantha Abbott, PG

Project Manager

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: OCDOnline@state.nm.us

To: <u>Llull, Christian</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 367770

Date: Friday, July 26, 2024 6:20:43 PM

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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#) nAB1619432451.

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

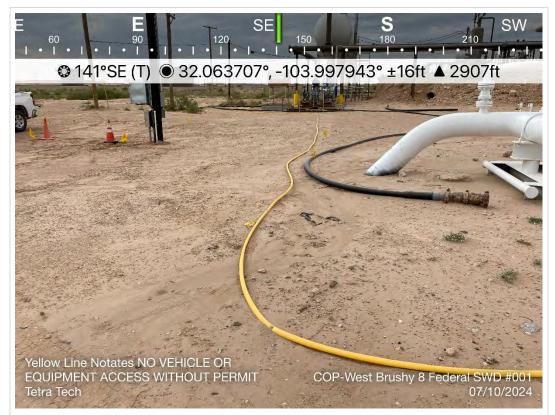
APPENDIX D Photographic Documentation



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View northeast, site walk and review of utility lines and associated markings prior to excavation.	1
212C-MD-02997	SITE NAME	West Brushy 8 SWD #001	7/10/2024



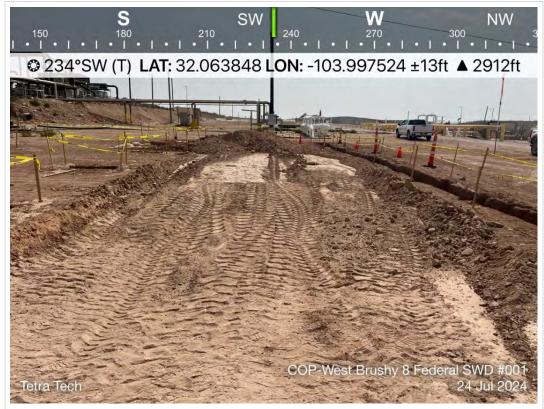
TETRA TECH, INC.	DESCRIPTION	View northwest, confirming powerline height for safety walk ahead of excavation.	2
PROJECT NO. 212C-MD-02997	SITE NAME	West Brushy 8 SWD #001	7/10/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02997	DESCRIPTION	View southeast, setting safety boundary for vehicle access around critical infrastructure.	3
	SITE NAME	West Brushy 8 SWD #001	7/10/2024



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south-southeast, hydrovac of subsurface to confirm location. Potholes indicate intervals of spotted location.	4
212C-MD-02997	SITE NAME	West Brushy 8 SWD #001	7/12/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02997	DESCRIPTION	View southwest, initial scrape of 1-foot excavation area.	5
	SITE NAME	West Brushy 8 SWD #001	7/24/2024



TETRA TECH, INC.	DESCRIPTION	View southwest, excavation of northern section of release associated with nAB1529948530.	6
PROJECT NO. 212C-MD-02997	SITE NAME	West Brushy 8 SWD #001	7/26/2024



TETRA TECH, INC.	DESCRIPTION	View west, localized 4-foot excavation adjacent to subsurface line.	7
PROJECT NO. 212C-MD-02997	SITE NAME	West Brushy 8 SWD #001	8/1/2024



TETRA TECH, INC.	DESCRIPTION	View southwest, 4-foot excavation adjacent to subsurface line in northern section of release extent.	8
PROJECT NO. 212C-MD-02997	SITE NAME	West Brushy 8 SWD #001	8/1/2024



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north-northwest, removal of 4 foot of materials as per approved work plan.	9
212C-MD-02997	SITE NAME	West Brushy 8 SWD #001	7/26/2024



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north, excavation backfill.	10
212C-MD-02997	SITE NAME	West Brushy 8 SWD #001	7/29/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02997	DESCRIPTION	View west-southwest, area of 4-foot excavation as per approved work plan.	11
	SITE NAME	West Brushy 8 SWD #001	8/6/2024



TETRA TECH, INC.	DESCRIPTION	View north-northeast, area of 1-foot excavation as per approved work plan.	12
PROJECT NO. 212C-MD-02997	SITE NAME	West Brushy 8 SWD #001	7/29/2024



TETRA TECH, INC.	DESCRIPTION	View northwest, removal of 1 foot of materials as per approved work plan.	13
PROJECT NO. 212C-MD-02997	SITE NAME	West Brushy 8 SWD #001	8/6/2024



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north, area of excavation as per approved work plan.	14
212C-MD-02997	SITE NAME	West Brushy 8 SWD #001	8/6/2024



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north, area of 1-foot excavation as per approved work plan.	15
212C-MD-02997	SITE NAME	West Brushy 8 SWD #001	8/6/2024



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View east-northeast, 1-foot excavation as per approved work plan.	16
212C-MD-02997	SITE NAME	West Brushy 8 SWD #001	8/6/2024



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north, potholes over subsurface line visible within area of excavation.	17
212C-MD-02997	SITE NAME	West Brushy 8 SWD #001	8/6/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02997	DESCRIPTION	View east-northeast, backfill of excavation extent.	18	
	SITE NAME	West Brushy 8 SWD #001	8/6/2024	



TETRA TECH, INC. PROJECT NO. 212C-MD-02997	DESCRIPTION	View east, backfill of excavation extent.	19
	SITE NAME	West Brushy 8 SWD #001	8/6/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02997	DESCRIPTION	View east-southeast, backfill of excavated extent.	20
	SITE NAME	West Brushy 8 SWD #001	8/6/2024

APPENDIX E Laboratory Analytical Data



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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		Analyzed 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, 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		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: ESW - 1 (H244359-02)

BTEX 8021B

	<u> </u>			. ,					
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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed 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	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2024	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	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: ESW - 2 (H244359-03)

BTEX 8021B

	9/	9	71.14.1, = 0	,					
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	% 71.5-13	4						
Chloride, SM4500CI-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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Celey D. Keine



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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: ESW - 3 (H244359-04)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a 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	% 71.5-13	4						
Chloride, SM4500CI-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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Celey D. Keine



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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: SSW - 1 (H244359-05)

BTEX 8021B

	<u> </u>			. ,					
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, SM4500CI-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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

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Celey & Keene



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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: WSW - 1 (H244359-06)

BTEX 8021B

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, SM4500CI-B	mg/	'kg	Analyze	ed 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	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	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celey D. Keene



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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: WSW - 2 (H244359-07)

BTEX 8021B

	9/	·-9	7	7: 5::					
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	ed 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	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	92.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kreene



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: Sampling Type: Soil 07/24/2024

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 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	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

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Celey D. Keene



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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 1 (H244359-09)

BTEX 8021B

	9/	9	7	7: 5::					
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, SM4500CI-B	mg,	/kg	Analyze	ed 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	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	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 2 (H244359-10)

BTEX 8021B

DILX GOZID	iiig/	, kg	Alldiyzo	u by. 511					
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, SM4500CI-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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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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 3 (H244359-11)

BTEX 8021B

	9/	9	7						
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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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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: Sampling Type: Soil 07/24/2024

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, SM4500CI-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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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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 5 (H244359-13)

BTEX 8021B

	9,	9	7	7: 5::					
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, SM4500CI-B	mg,	/kg	Analyze	ed 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	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	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

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Celeg D. Freene



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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 6 (H244359-14)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311					
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, SM4500CI-B	mg	/kg	Analyze	ed 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	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	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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Celey D. Keene



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: Sampling Type: Soil 07/24/2024

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



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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 8 (H244359-16)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a 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	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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Celey D. Keene



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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 9 (H244359-17)

BTEX 8021B

	9/	9	7						
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, SM4500CI-B	mg,	/kg	Analyze	ed 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	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	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Celey D. Keene



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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 10 (H244359-18)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Celey D. Keine



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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 11 (H244359-19)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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Celey D. Keine



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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 12 (H244359-20)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
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, SM4500CI-B	mg,	/kg	Analyze	ed 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	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	117	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 13 (H244359-21)

BTEX 8021B

	9/	9	7						
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, SM4500CI-B	mg,	/kg	Analyze	ed 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	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	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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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

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Celeg D. Freene

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

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Project Owner:	City:	
Project Location: Eddy Co IJM	State: Zip:	
Andrew	Phone #:	
24-2 CAS CAS CAS	Fax#:	
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Charca 11/23/24 S		Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email and results are emailed.
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Sample Condition Corrected Temp. °C Corrected Temp. °C Sample Condition Cool Intact Corrected Temp. °C	CHECKED BY: Turnaround Time:	RD)
† Cardinal cannot accept verbal change	Cardinal cannot accept verbal changes. Please email changes to celev keene@cardinalista	No No Corrected Temp. °C

Andrew Gercie

Date: 7/23/24 S.

Received By:

i made in writing and received by Cavdinal within 30 days after completion of the app Iness interruptions, loas of use, or loas of profits incurred by client, its subsidiaries,

paid by the client for the



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: C 1900 T NA 11105	BILL TO	ANALYSIS PEOLIEST
JUAN HOROTH	P.O. #:	
	Company: Tetro Trech	
State: Zip:	Attn: Som Abrit	
Fax#:	Address.	
Project #: 2120 MD 32997 Project Owner:	City:	
Project Nat Brushy & Frageral SVID #00		
Sampler Name: A ANA Co. 13 M	Phone #:	
Andrew Garcine	Fax#:	
1	MATRIX PRESERV. SAMPLING	<i>ν</i>
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7/22

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Cool Intact

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Bacteria (only) Sample Condition

Cool Intact
Division Division Sample Condition

CHECKED BY:

Observed Temp. °C 8 Corrected Temp. °C

Time:

Received By:

REMARKS:

Andrew. Garage Ctetratech, com

Sam.

abbotte Totratech.com

All Results are emailed. Please provide Email address:

O No

Add'l Phone #:

Verbal Result:



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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

Celey D. Keine

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. 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: 07/24/2024 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	4						
Chloride, SM4500CI-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	8						

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Celeg D. Kreene



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: ETC-2 (H244412-02)

BTEX 8021B

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	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	83.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.6	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

Analyzed By: JH

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

mg/kg

Sample ID: ETC-3 (H244412-03)

BTEX 8021B

	<u> </u>			. ,					
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, SM4500CI-B	mg,	/kg	Analyze	d 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	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	85.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.0	% 49.1-14	8						

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Celey D. Kreene



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: ETC-4 (H244412-04)

BTEX 8021B

	<u> </u>								
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	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	92.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1-14	8						

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Celey D. Keene



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

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Celey D. Keene



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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

Celey D. Keine

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. 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: 07/29/2024 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

Applyand By 14

Project Location: COP- EDDY COUNTY, NM

Sample ID: ESW - 4 (H244486-01)

DTEV 0021D

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, SM4500CI-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	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						

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Celey & Keene



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: WSW - 4 (H244486-02)

BTEX 8021B

	9/	9	7	7: 5::					
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, SM4500CI-B	mg/	'kg	Analyze	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	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	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 14 (H244486-03)

BTEX 8021B

	9/	9	7						
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, SM4500CI-B	mg/	'kg	Analyze	ed 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	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	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.2	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 15 (H244486-04)

BTEX 8021B

	9/	9	7						
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, SM4500CI-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	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	92.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.3	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 16 (H244486-05)

BTEX 8021B

	9/	9	7						
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, SM4500CI-B	mg/	'kg	Analyzed 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	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	82.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.6	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 17 (H244486-06)

BTEX 8021B

	9/	9	7	,					
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: 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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Celey D. Keene



Analytical Results For:

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

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

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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	% 71.5-13	4						
Chloride, SM4500CI-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						

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Celey D. Keine



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: NSW - 2 (H244486-08)

BTEX 8021B

	<u> </u>								
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	% 71.5-13	4						
Chloride, SM4500CI-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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Celey & Keene



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: SSW - 2 (H244486-09)

BTEX 8021B

	<u> </u>								
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	% 71.5-13	4						
Chloride, SM4500CI-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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Analytical Results For:

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	Analyzed 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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Celey D. Keene



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 22 (H244486-11)

BTEX 8021B

	9/	9	7	,					
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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Celey D. Keene



Analytical Results For:

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 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.7 9	% 49.1 - 14	8						

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Celey D. Keene



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 24 (H244486-13)

BTEX 8021B

	<u> </u>			. ,					
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	% 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	84.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.0	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 27 (H244486-14)

BTEX 8021B

	9/	9	7	,					
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, SM4500CI-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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Celey D. Keene



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 28 (H244486-15)

BTEX 8021B

	<u> </u>			. ,					
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	% 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	91.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.8	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 29 (H244486-16)

BTEX 8021B

	<u> </u>			. ,					
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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Celey D. Keene



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 30 (H244486-17)

BTEX 8021B

	9/	9	7						
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, SM4500CI-B	mg/	/kg	Analyze	ed 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	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2024	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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Celey & Keene



Analytical Results For:

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 31 (H244486-18)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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, SM4500CI-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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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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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

State: MZIp: Fax #: City: State: Zip: Phone #: Fax #: City: State: Zip: Dail: Fax #: City: State: Zip: Dail: Fax #: City: C	State: MZip: Fax #: City: State: MZip: Address: City: State: Zip: Phone #: PRESERV! State: Zip: Phone #: Fax #: City: State: Zip: Phone #: Fax #: City: State: Zip: Phone #: PRESERV! State: Zip: Phone #: Fax #	thed By: (Circ	PLEASE NOTE: Liability and Di analyses. All claims including th service. In no event shall Cardin affiliates or successor. "Ning or	520	×1e	٥٠	روبر	28hhhBH	Lab I.D.	FOR LABUSE ONLY	Project Location:	Project #: 2/25 -M.	Phone #:	City:	Address:	Company Name?
Address: Company Crock State: Address: Address: City: State: Zip: Phone #: Fax #: PRESERV. SAMP WASTEWATER GROUNDWATER WASTEWATER SOIL OIL UDGE OTHER ACID/BASC ICCE / COO INTER ACID/BASC OTHER CHECKED BY: CHECKED BY:	Address: Company Crock Attn: Xr. Abbutto Attn: Xr. Abbutto Address: City: State: Zip: Phone #: Fax #: ACID/BASE: OTHER ACID/BASE: OTHER ACID/BASE: OTHER ACID/BASE: OTHER TOTHER ACID/BASE: OTHER ACID/BASE: ACID/BA	1/26/	cleats, exclusive retrievy in ser cause whelsoever shall nuequental damages, inclu- nce of services hereunder	12m -1	- 1	5-15	15- 151 12- 151	H-175	Sample I.D.	YERW CENTU	Gody County	Broshy D		-	Jam 1-1000 -1	145/1/2
SS: Zip: Z	ESERV. SAMPLING Zip: Z	e T	coarn aross erned waive elhout limite rdinel, regan					# CO GRO WAS X SOII OIL SLU OTI	DUNDWATER STEWATER L DGE	MATRIX	Phone #	Sw) #001			Just house	tech
	TPI+ 9015M (GRO-TRO-DRO-MA) TO Standard Standard RUSh RU	,	by Cardinal within 30 days after completion of the c or loss of profits incurred by client, its subsidiar many of the above stated reasons or otherwise. Verbal Re	be limited to the amount				7/26		ESERV.	**		SS	.45	my Core	20120

Released to Imaging: 9/6/2024 10:27:57 AM



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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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)

Celey D. Keine

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. 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: 07/31/2024 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	14						
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	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	34						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	18						

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Celey D. Keine



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: NSW - 4 (H244569-02)

BTEX 8021B

DILX OUZID	iiig/	, kg	Andryzo	u by. 511					
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	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	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celeg & Keene



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: NSW - 5 (H244569-03)

BTEX 8021B

	9/	9	7	<u></u>					
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, SM4500CI-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

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Celey D. Keine



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: SSW - 3 (H244569-04)

BTEX 8021B

	9/	9	7	<u></u>					
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						

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Celey D. Keine



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: SSW - 4 (H244569-05)

BTEX 8021B

DILX GOZID	11197	ng .	Andryzo	u by. 511					
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						

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Celey D. Keene



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: WSW - 5 (H244569-06)

BTEX 8021B

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 9	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

Analyzed By: JH

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

mg/kg

Sample ID: ESW - 5 (H244569-07)

BTEX 8021B

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, 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	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						

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Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 18 (H244569-08)

BTEX 8021B

	9/	9	7	<u></u>					
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, SM4500CI-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						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

Analyzed By: JH

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

mg/kg

Sample ID: FS - 19 (H244569-09)

BTEX 8021B

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	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 9	6 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 20 (H244569-10)

BTEX 8021B

	<u> </u>								
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, SM4500CI-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



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 21 (H244569-11)

BTEX 8021B

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, 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	87.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.0	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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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Celey D. Keene



Analytical Results For:

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 33 (H244569-13)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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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Analytical Results For:

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 34 (H244569-14)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a 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	% 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	92.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.2	% 49.1-14	8						

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Analytical Results For:

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, 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	89.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.7	% 49.1-14	8						

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Analytical Results For:

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	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	91.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 49.1-14	8						

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Analytical Results For:

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 %	6 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	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	93.8	% 49.1-14	8						

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Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

Applyzod By: 14

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

ma/ka

Sample ID: FS - 38 (H244569-18)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
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, SM4500Cl-B	mg,	/kg	Analyze	ed 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	ed 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 & Keene



Analytical Results For:

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 9	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	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 40 (H244569-20)

BTEX 8021B

	<u> </u>			. ,					
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	% 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	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 41 (H244569-21)

BTEX 8021B

	<u> </u>								
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	% 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	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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Celey D. Keene



Analytical Results For:

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 42 (H244569-22)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a 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	% 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	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 43 (H244569-23)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
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	% 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	32.0	16.0	08/01/2024	ND	432	108	400	0.00	
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	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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Celey & Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

Applyzod By: 14

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

ma/ka

Sample ID: FS - 44 (H244569-24)

RTFY 8021R

Result <0.050 <0.050 <0.050 <0.150	Reporting Limit 0.050 0.050 0.050	Analyzed 08/01/2024 08/01/2024	Method Blank ND ND	BS 2.11	% Recovery	True Value QC 2.00	RPD 5.44	Qualifier
<0.050 <0.050	0.050					2.00	5.44	
<0.050		08/01/2024	ND	2.42				
	0.050			2.42	121	2.00	5.19	
<0.150		08/01/2024	ND	2.57	129	2.00	5.02	
	0.150	08/01/2024	ND	7.83	130	6.00	5.20	
<0.300	0.300	08/01/2024	ND					
118	% 71.5-13	4						
mg/kg		Analyzed By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	16.0	08/01/2024	ND	432	108	400	0.00	
mg	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	08/01/2024	ND	209	104	200	0.225	
<10.0	10.0	08/01/2024	ND	215	108	200	0.984	
<10.0	10.0	08/01/2024	ND					
97.1	% 48.2-13	4						
	Result 16.0 mg, Result <10.0 <10.0	mg/kg Result Reporting Limit 16.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0	mg/kg Analyzed Result Reporting Limit Analyzed 16.0 08/01/2024 mg/kg Analyzed Result Reporting Limit Analyzed <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank 16.0 08/01/2024 ND Method Blank Result Reporting Limit Analyzed Method Blank <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS 16.0 16.0 08/01/2024 ND 432 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery 16.0 16.0 08/01/2024 ND 432 108 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 16.0 16.0 08/01/2024 ND 432 108 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 16.0 16.0 08/01/2024 ND 432 108 400 0.00 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

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Celey D. Keine



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 45 (H244569-25)

BTEX 8021B

	<u> </u>								
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	% 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	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	116	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

Analyzed By: JH

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

mg/kg

Sample ID: FS - 46 (H244569-26)

BTEX 8021B

	9/	9	7.1.4.7.2						
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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed 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	ed 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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Celey D. Keene



Analytical Results For:

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 47 (H244569-27)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
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	% 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	1490	16.0	08/01/2024	ND	432	108	400	0.00	
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	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	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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	Analyzed 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 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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	Analyzed 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

Sample ID: FS - 50 (H244569-30)

BTEX 8021B

	9/	9	7.1.4.7.2						
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, SM4500CI-B	mg,	/kg	Analyze	ed 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	ed 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						

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Celey D. Keene



Analytical Results For:

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 51 (H244569-31)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
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	% 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	1230	16.0	08/01/2024	ND	432	108	400	0.00	
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	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						

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Celey & Keene



Notes and Definitions

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affect	ted.
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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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Celeg D. Freene

Relinquished By:

Andre

Cocce

Time: 1658

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Received By:

Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #:
All Results are emailed. Please provide Email address:

Time:

Delivered By: (Circle One)

pler - UPS - Bus - Other:

Observed Temp. °C

Sample Condition
Cool Intact
[] Yes Yes
No No No

CHECKED BY:

furnaround Time:

Standard

ometer ID #140 tion Factor 0°C

THY HE TAT

Cool Intact
| Yes | Yes | No | No

Corrected Temp. °C

Bacteria (only) Sample Condition Cool Intact Observed Temp. °C REMARKS:

Andrew

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C Tetratech. com

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Abbotte tetatechican

Relinquished By

CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

roject Manager: Scim Abboth	Mirps	200	
ddress:		Company: Fota toch	7
ity:	State: Zip:	Attn: Sam Abbott	
hone #:	Fax#:	Address:	
roject #: 2125-MD-02967 Project Owner:	Project Owner:	City:	
roject Name: Vest Brushy & Federal SWD # 00 R	& Federal SWD #001	R State: Zip:	
roject Location: Eddy lo NA	\$	Phone #:	
ampler Name: Andrew Gordon	44	Fax#:	<i>a</i> ,
П	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE/COOL OTHER: DATE	BTEX TPH Chlon
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101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

L	No No Corrected Temp. °C	HRTAT	77	ctor e-C	orrection Factor	No No Correction Factor and	No I No	0	+ Condition	CZULLUD	PORM-000 R 3:4
	Bacteria (only) Sample Condition Cool Infact Observed Temp. °C	Standard Q		d Time:	Turnaround Time:	CHECKED BY: (Initials)	ple Condition Infact	Samp	Observed Temp. °C Corrected Temp. °C	Other:	Delivered By: (Circle One) Sampler - UPS - Bus - Other:
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,	Abbott C tetate ch. con	十つかけん	odo		SQ.M.		Lias	Received By:	Date: Re	5	Relinquished By:
	all address:	d. Please provide Email address:	iled. Pi	are ema	All Results are emailed				7/31/24	200	Andre Corri
	Phone #	O No. Add	Yes		Verbal Result:	or any of the shoots existed real	estive quich chaem as based.	Received By:	Date: R		Relinquished 3y:
		x		applicable n	completion of the app onf, its subsidiaries,	so by Ceromal within 30 days after a se, or loss of profits incurred by clin	menesa interruptions, itses of use	ut lienkelion, busines	consequental damages, including with	e liable for incidental or or related to the perform	service. In no event shall Cardinal b affiliates of successor. Yising out of
E			K	1	by the client for the	shed to the amount paid	contract or lost,	im arising whether h	and client's exclusive ternedy for any cla other cause whatboower shall be deser-	ges. Cerdinaf's liability a for negligence and any	analyses. All claims including those
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		Chlon	TPH	BTEX	TIME	ACID/BASE: ICE / COOL COTHER:	SOIL OIL SLUDGE OTHER:	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER	Sample I.D.	Samp	Habi.D.
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						a	City:		197 Project Owner:	MD-029	Project # 2125 - MD - 02997
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	. / *			_	たん	Company: Fota	Cor				Address:
1						2.#	P.O.		Abbott	Sem A	Project manager:
	ANALYSIS REQUEST	AN				BILL TO			Phillips	Conoco	Company Name:
											-

Page 35 of 37

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Observed Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabenm.com

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Observed Temp.

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CHECKED BY:

Andrew.

Gorcia

Tetratech, com

Time:

CARDINAL Laboratories 101 East Marfand, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

b nishhr H Sampler Name: Project Location: Eddy to, NA Project Name: Viest Brushy & Project #: 2125 MD-02997 Project Owner Project Manager: Andre Garcie hone #: Company Name: Lab I.D ddress 24 25 F 101 East Marland, Hobbs, NM 88240 An drew 575) 393-2326 FAX (575) 393-2476 Sam Conoco - S.4 53 44 - 57 FS- 43 8H-SJ FS-47 Sample I.D. 545 Abboth 34 (JOYCHO) Phillips Fax #: State: Federal 31/2 (G)RAB OR (C)OMP Zip: SWD # CONTAINERS GROUNDWATER WASTEWATER # 00 R MATRIX SOIL OIL SLUDGE OTHER City: Fax #: P.O. # hone #: Mr. Sam Abby # company: ddress: ACID/BASE PRESERV ICE / COOL OTHER Fata tod 7/31 4207 DATE 70 SAMPLING d by the client for the 14 00 13 50 1340 1330 344 1430 5171 1315 1300 1320 TIME San. Abbott C totate ch. com BTEX × TPH × Chlon de, ANALYSIS REQUEST De oc W

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Andre Garcie

7/31

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Conoro Phillips		BILL TO	ANAL	ANALYSIS REQUEST
Project Manager:	Sam Abbott		P.O. #:		
Address:			Company: Foto to		
City:	State:	Zip:	Attn: Sam Abbut		
Phone #:	Fax#:		Address:		
Project #: 2125	Project #: 2125-MD-02997 Project Owner:	7	City:		
Project Name:	Project Name: Yest Brighy & Federal SWD # 00 R	EN SWID # OU R	State: Zip:		
Project Location:	Project Location: Eddy to rum		Phone #:		
Sampler Name:	Andrew Gorda		Fax 非:	1,	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	de	
Lab I.D.	Sample I.D.	OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	BTEX TPH Chlon	
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Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabenm.com 24 HRTAT

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Alobotte tetatech.com

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Tetratech.com

Observed Temp. °C

Page 37 of 37



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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

Celey D. Keine

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. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH SAM ABBOTT

 $901~\mbox{WEST}$ 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

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

Applyzod By: 14

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

ma/ka

Sample ID: ISW - 3 (H244634-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a 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, SM4500CI-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						

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Celey D. Keene



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

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Celey D. Keene

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	Date: Time:		Date: Time:	bare		4							ISW-3	ISW-2		SAMPLE IDENTIFICATION		10: Androw, Gasine e total	Cardinal Labs	Attn: Sam. Abbott eftat	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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

Celey D. Keine

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. 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: 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

Analyzed By: JH

Project Location: COP- EDDY COUNTY, NM

mg/kg

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

BTEX 8021B

DILX 0021D	ilig	r kg	Allalyze	u by. 311					
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						

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Celey D. Keene



Analytical Results For:

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 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

Analyzed By: JH

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

mg/kg

Sample ID: FS - 25 (H244695-03)

BTEX 8021B

	<u> </u>								
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	% 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	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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Analytical Results For:

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

Applyzod By: 14

Project Location: COP- EDDY COUNTY, NM

ma/ka

Sample ID: FS - 26 (H244695-04)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a 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	% 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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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

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Celeg D. Freene

† Cardinal cannot accept verbal changes. Please and it has greated to celey.keene@cardinallabsnm.com

Corrected Temp. °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476

Project Manager:	Cono		BILL TO			ANALYSIS REQUEST
Address:	Abbott	P.O. #:				
City:		Company:	y: Febra Toch	_		
Phone #:	orace:	Attn: Sc	Attn: Sam Abbott			
Denient #	Fax #:	-6			- 11	
Project #: 212C		ner: City:				
Project Name: West	mushy &	Federal SWD #001R State:	Zip:			
Project Location: Eddy	S NA.					
Sampler Name:	Andrew Garcia	Fav #		_		
FOR LAB USE ONLY	Į	r a	1		•	
		3	ERV. SAMPLING		ides	
Lab I.D.	Sample I.D.	G)RAB OR (C)OM CONTAINERS ROUNDWATER WASTEWATER OIL IL LUDGE THER: CID/BASE:	THER:	TPH	Chloria	
1-	ISW-2(1)	×		×	X	
14			1100	_	-	
1			1200			
	+5-26	*	1300	-	•	
	à					
emalyses. All claims including thouseservice. In no event shall Cardinal affiliates or successors arising out of Relinquished Rv.	for negligence and any other cause whatsoever shall be deemed waked to be fished for incidental or consequental damages, including without limitation of or reliated to the performance of services hereunder by Cardinal, regardler.	rankjess. All claims including those for negligence and any other cause whatsoever shall be demend waived interested in contract or tort, shall be limited to the amount paid by the client for the service. In no event shall cardinal be liable for incidental or consequential damages, including without imitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, Refinquished by the client of the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stand reasons restricted.	ted to the amount paid by the client for the natwithin 30 days after completion of the a of profits incurred by client, its subsidiaries, of the above stated reasons or otherwise.	pplicable	-	•
	Si S	received by:		t:	Please prov	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:
10		Received By:	Sann, REMARKS:	Abla	otte	Abbott @ Fetretech. com
Delivered By: (Circle One)		Sample Condition Cool Intact	CHECKED BY: Turnaround Time:		Standard	Bacteria (only) Sample Condition
	Collected legistra	No No	Thermometer ID #140	#140	5	

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

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

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

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

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

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

Laboratory Job ID: 890-6947-1

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

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1:

Definitions/Glossary

Client: R360 ES Holdings Inc Job ID: 890-6947-1

Project/Site: R360 -backfill

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.

Glossary

Clossary	
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
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
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

MQL NC

ML MPN

C 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)

Minimum Level (Dioxin)

Most Probable Number

Method Quantitation Limit

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

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Case Narrative

Client: R360 ES Holdings Inc Job ID: 890-6947-1 Project: R360 -backfill

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.

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Job ID: 890-6947-1

Dil Fac

Client: R360 ES Holdings Inc

Project/Site: R360 -backfill

Client Sample ID: E#88

Lab Sample ID: 890-6947-1

Matrix: Solid

07/26/24 00:36

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

Chloride

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed

155

5.04 Lab Sample ID: 890-6947-2 Client Sample ID: E#89

0.398

mg/Kg

Date Collected: 07/22/24 07:00 **Matrix: Solid**

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 5.03 07/26/24 00:52 Chloride 68.6 0.397 mg/Kg

Client Sample ID: E#90 Lab Sample ID: 890-6947-3

Date Collected: 07/22/24 07:00 **Matrix: Solid**

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 4.99 0.394 07/26/24 00:57 48.7 mg/Kg

Client Sample ID: E#91 Lab Sample ID: 890-6947-4 **Matrix: Solid**

Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 4.98 07/26/24 01:13 Chloride 0.393 mg/Kg 65.0

Lab Sample ID: 890-6947-5 Client Sample ID: E#92

Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 37.6 5.00 0.395 mg/Kg 07/26/24 01:18

Client Sample ID: E#93 Lab Sample ID: 890-6947-6

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

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 5.00 07/26/24 01:23 Chloride 0.395 mg/Kg 36.8

Client Sample ID: E#94 Lab Sample ID: 890-6947-7

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

Released to Imaging: 9/6/2024 10:27:57 AM

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 22.4 4.99 0.394 mg/Kg 07/26/24 01:28

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Matrix: Solid

Matrix: Solid

Matrix: Solid

Client: R360 ES Holdings Inc

Job ID: 890-6947-1

Project/Site: R360 -backfill Client Sample ID: E#95

Lab Sample ID: 890-6947-8

Matrix: Solid

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

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	21.0		5.04	0.398	mg/Kg			07/26/24 01:34	1

Lab Sample ID: 890-6947-9 Client Sample ID: E#96

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

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Ch	romatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.6	5.02	0.397 mg/Kg	g		07/26/24 01:39	1

Client Sample ID: E#97 Lab Sample ID: 890-6947-10

Date Collected: 07/22/24 07:00

Matrix: Solid

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	19.4		4.98	0.393	mg/Kg			07/26/24 01:44	1

Client Sample ID: E#98 Lab Sample ID: 890-6947-11

Date Collected: 07/22/24 07:00

Matrix: Solid

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	14.5		4.96	0.392	mg/Kg			07/25/24 17:16	1

Client Sample ID: E#99 Lab Sample ID: 890-6947-12

Date Collected: 07/22/24 07:00

Matrix: Solid

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result Qualifier	RL	MDL U	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	94.2	4.98	0.393 n	mg/Kg			07/25/24 17:32	1

Client Sample ID: E#100 Lab Sample ID: 890-6947-13

Date Collected: 07/22/24 07:00 **Matrix: Solid** Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.7	4.99	0.394	mg/Kg			07/25/24 17:37	1

Client Sample ID: E#101 Lab Sample ID: 890-6947-14

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

Released to Imaging: 9/6/2024 10:27:57 AM

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

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

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

Job ID: 890-6947-1

Client Sample ID: E#102

Lab Sample ID: 890-6947-15

Matrix: Solid

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

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	120		5.01	0.396	mg/Kg			07/25/24 17:47	1

Lab Sample ID: 890-6947-16 Client Sample ID: E#103 Date Collected: 07/22/24 07:00 Matrix: Solid

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 5.01 07/25/24 18:03 Chloride 159 0.396 mg/Kg

Client Sample ID: E#104 Lab Sample ID: 890-6947-17

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

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

221

5.04 Lab Sample ID: 890-6947-18 Client Sample ID: E#105

0.398 mg/Kg

Date Collected: 07/22/24 07:00

Chloride

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion CI							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	274	5.03	0.397 mg/Kg			07/25/24 18:14	1

Client Sample ID: E#106 Lab Sample ID: 890-6947-19

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

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	161		5.05	0.399	mg/Kg			07/25/24 18:19	1

Client Sample ID: E#107 Lab Sample ID: 890-6947-20 **Matrix: Solid**

Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	197		4.99	0.394	mg/Kg			07/25/24 18:24	1

Client Sample ID: E#108 Lab Sample ID: 890-6947-21

Date Collected: 07/22/24 07:00 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	263	F1	4.96	0.392	mg/Kg			07/25/24 18:30	1

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Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

07/25/24 18:08

Matrix: Solid

Matrix: Solid

Client Sample Results

Client: R360 ES Holdings Inc Job ID: 890-6947-1

Project/Site: R360 -backfill

Client Sample ID: E#109 Lab Sample ID: 890-6947-22

Date Collected: 07/22/24 07:00 Matrix: Solid

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride2844.970.393mg/Kg07/25/24 18:451

Client Sample ID: E#110 Lab Sample ID: 890-6947-23

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

Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride1114.950.391mg/Kg07/25/24 18:501

Client Sample ID: E#111 Lab Sample ID: 890-6947-24

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

Date Received: 07/22/24 11:07

Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride1984.990.394mg/Kg0.7/25/24 19:061

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Job ID: 890-6947-1 Client: R360 ES Holdings Inc

Project/Site: R360 -backfill

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-86373/1-A

Client Sample ID: Method Blank

Prep Type: Soluble

Client Sample ID: E#88

Client Sample ID: E#88 **Prep Type: Soluble**

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analysis Batch: 86421

Matrix: Solid

MB MB

Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 0.395 mg/Kg 07/25/24 23:07

Lab Sample ID: LCS 880-86373/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 86421

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 254.2 mg/Kg 102 90 - 110

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 880-86373/3-A **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 86421

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 255.4 102 90 - 110 20 ma/Ka

Lab Sample ID: 890-6947-1 MS

Matrix: Solid

Analysis Batch: 86421

MS MS Spike %Rec Sample Sample Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Chloride 155 252 398.4 97 90 - 110 mg/Kg

Lab Sample ID: 890-6947-1 MSD

Matrix: Solid

Analysis Batch: 86421

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 155 252 398.9 97 90 - 110 mg/Kg

Lab Sample ID: MB 880-86374/1-A

Matrix: Solid

Analysis Batch: 86423

MB MB

MDL Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 5.00 0.395 mg/Kg 07/25/24 17:00

Lab Sample ID: LCS 880-86374/2-A

Matrix: Solid

Analysis Batch: 86423

LCS LCS %Rec Spike Added Result Qualifier Limits Analyte Unit %Rec Chloride 250 248.7 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-86374/3-A

Matrix: Solid

Analysis Batch: 86423

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 250.8 mg/Kg 100 90 - 110 20

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QC Sample Results

Client: R360 ES Holdings Inc Job ID: 890-6947-1

Project/Site: R360 -backfill

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-6947-11 MS Client Sample ID: E#98 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 86423

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Chloride 14.5 248 272.7 mg/Kg 104 90 - 110

Lab Sample ID: 890-6947-11 MSD Client Sample ID: E#98 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 86423

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Qualifier Limits RPD Limit Analyte Result Unit D %Rec Chloride 14.5 248 273.0 mg/Kg 104 90 - 110 0

Lab Sample ID: 890-6947-21 MS Client Sample ID: E#108 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 86423

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 263 F1 248 539.4 F1 90 - 110 mg/Kg 111

Lab Sample ID: 890-6947-21 MSD

Matrix: Solid

Analysis Batch: 86423

Spike MSD MSD RPD Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec RPD Limit Limits Chloride 263 F1 248 541.1 F1 112 90 - 110 20 mg/Kg

Eurofins Carlsbad

Client Sample ID: E#108

Prep Type: Soluble

QC Association Summary

Client: R360 ES Holdings Inc Job ID: 890-6947-1

Project/Site: R360 -backfill

HPLC/IC

Leach Batch: 86373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-6947-1	E#88	Soluble	Solid	DI Leach	
890-6947-2	E#89	Soluble	Solid	DI Leach	
890-6947-3	E#90	Soluble	Solid	DI Leach	
890-6947-4	E#91	Soluble	Solid	DI Leach	
890-6947-5	E#92	Soluble	Solid	DI Leach	
890-6947-6	E#93	Soluble	Solid	DI Leach	
890-6947-7	E#94	Soluble	Solid	DI Leach	
890-6947-8	E#95	Soluble	Solid	DI Leach	
890-6947-9	E#96	Soluble	Solid	DI Leach	
890-6947-10	E#97	Soluble	Solid	DI Leach	
MB 880-86373/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-86373/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-86373/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6947-1 MS	E#88	Soluble	Solid	DI Leach	
890-6947-1 MSD	E#88	Soluble	Solid	DI Leach	

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

Released to Imaging: 9/6/2024 10:27:57 AM

Lab Sample ID	Client Sample ID	Prep Type	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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QC Association Summary

Client: R360 ES Holdings Inc Job ID: 890-6947-1 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	Prep Type	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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Client: R360 ES Holdings Inc Project/Site: R360 -backfill

Client Sample ID: E#88 Lab Sample ID: 890-6947-1 Date Collected: 07/22/24 07:00

Matrix: Solid

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	CH	EET MID

Client Sample ID: E#89 Lab Sample ID: 890-6947-2

Date Collected: 07/22/24 07:00 Matrix: Solid

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 Lab Sample ID: 890-6947-3

Date Collected: 07/22/24 07:00 **Matrix: Solid**

Date Received: 07/22/24 11:07

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

Client Sample ID: E#91 Lab Sample ID: 890-6947-4

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

Batch Batch Dil Initial Batch Final Prepared Method **Prep Type** Type 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 Lab Sample ID: 890-6947-5

Date Collected: 07/22/24 07:00 **Matrix: Solid**

Date Received: 07/22/24 11:07

Released to Imaging: 9/6/2024 10:27:57 AM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 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	CH	EET MID

Client Sample ID: E#93 Lab Sample ID: 890-6947-6

Date Collected: 07/22/24 07:00 **Matrix: Solid** Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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	CH	EET MID

Eurofins Carlsbad

Matrix: Solid

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

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Lab Sample ID: 890-6947-7

Matrix: Solid

Client Sample ID: E#94
Date Collected: 07/22/24 07:00

Date Received: 07/22/24 11:07

Batch Batch Dil Initial Final Batch Prepared

	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	CH	EET MID

Client Sample ID: E#95 Lab Sample ID: 890-6947-8

Date Collected: 07/22/24 07:00 Matrix: Solid

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	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	CH	EET MID

Client Sample ID: E#96 Lab Sample ID: 890-6947-9

Date Collected: 07/22/24 07:00 Matrix: Solid

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	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	CH	EET MID

Client Sample ID: E#97 Lab Sample ID: 890-6947-10

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	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	CH	EET MID

Client Sample ID: E#98 Lab Sample ID: 890-6947-11

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	CH	EET MID

Client Sample ID: E#99

Lab Sample ID: 890-6947-12

Date Collected: 07/22/24 07:00

Matrix: Solid

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	86374	07/23/24 10:58	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86423	07/25/24 17:32	CH	EET MID

Eurofins Carlsbad

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Matrix: Solid

Matrix: Solid

rispad

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

Client Sample ID: E#100

Lab Sample ID: 890-6947-13 Date Collected: 07/22/24 07:00

Matrix: Solid

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	CH	EET MID

Client Sample ID: E#101 Lab Sample ID: 890-6947-14

Matrix: Solid

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	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	CH	EET MID

Client Sample ID: E#102 Lab Sample ID: 890-6947-15

Date Collected: 07/22/24 07:00 **Matrix: Solid**

Date Received: 07/22/24 11:07

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

Client Sample ID: E#103 Lab Sample ID: 890-6947-16

Date Collected: 07/22/24 07:00 **Matrix: Solid** Date Received: 07/22/24 11:07

Dil Batch Batch Initial Final Batch Prepared Method **Prep Type** Type 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 50 mL 50 mL 86423 07/25/24 18:03 СН **EET MID** 1

Client Sample ID: E#104 Lab Sample ID: 890-6947-17

Date Collected: 07/22/24 07:00 **Matrix: Solid** Date Received: 07/22/24 11:07

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

1

Client Sample ID: E#105 Lab Sample ID: 890-6947-18

Date Collected: 07/22/24 07:00 **Matrix: Solid** 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 DI Leach Soluble Leach 4.97 g 50 mL 86374 07/23/24 10:58 SMC **EET MID** 300.0 Soluble Analysis 50 mL 50 mL 86423 07/25/24 18:14 СН **EET MID**

Eurofins Carlsbad

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

Client Sample ID: E#106

Lab Sample ID: 890-6947-19

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

Matrix: Solid

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

Lab Sample ID: 890-6947-20

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

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	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	CH	EET MID

Lab Sample ID: 890-6947-21 Client Sample ID: E#108

Date Collected: 07/22/24 07:00 **Matrix: Solid**

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	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	CH	EET MID

Client Sample ID: E#109 Lab Sample ID: 890-6947-22

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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	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	CH	EET MID

Client Sample ID: E#110 Lab Sample ID: 890-6947-23

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	CH	EET MID

Client Sample ID: E#111 Lab Sample ID: 890-6947-24 Date Collected: 07/22/24 07:00 **Matrix: Solid**

Date Received: 07/22/24 11:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	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 19:06	CH	FET MID

Laboratory References:

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

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Accreditation/Certification Summary

Client: R360 ES Holdings Inc Job ID: 890-6947-1

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.

	Authority	Program	Identification Number	Expiration Date
١	Texas	NELAP	T104704400	06-30-25

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Method Summary

Client: R360 ES Holdings Inc

Job ID: 890-6947-1

Project/Site: R360 -backfill

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

890-6947-24

E#111

Sample Summary

Client: R360 ES Holdings Inc Job ID: 890-6947-1 Project/Site: R360 -backfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6947-1	E#88	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-2	E#89	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-3	E#90	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-4	E#91	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-5	E#92	Solid	07/22/24 07:00	07/22/24 11:07
890-6947-6	E#93	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-7	E#94	Solid	07/22/24 07:00	07/22/24 11:07
890-6947-8	E#95	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-9	E#96	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-10	E#97	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-11	E#98	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-12	E#99	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-13	E#100	Solid	07/22/24 07:00	07/22/24 11:07
90-6947-14	E#101	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-15	E#102	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-16	E#103	Solid	07/22/24 07:00	07/22/24 11:07
890-6947-17	E#104	Solid	07/22/24 07:00	07/22/24 11:07
890-6947-18	E#105	Solid	07/22/24 07:00	07/22/24 11:07
890-6947-19	E#106	Solid	07/22/24 07:00	07/22/24 11:07
890-6947-20	E#107	Solid	07/22/24 07:00	07/22/24 11:07
390-6947-21	E#108	Solid	07/22/24 07:00	07/22/24 11:07
890-6947-22	E#109	Solid	07/22/24 07:00	07/22/24 11:07
890-6947-23	E#110	Solid	07/22/24 07:00	07/22/24 11:07

Solid

07/22/24 07:00

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Program Control Cont	anager: hwischivero Bill to: (if different) Name: Address: EZIP: Orlo TX 7770 City, State ZIP: (405) 351-3694 Email: Wisched by 4:30pm Sociation: TAT starts the day received by the lab, if received by 4:30pm ERECEIPT Temp Blank: Aey No Wet Ice: Ness No State ZIP: Correction Factor: -0.2 State State ZIP: Orlo May Temperature Reading: 2-2 Sustody Seals: Yes No (N/A) Temperature Reading: 2-2 Sustody Seals:		of
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Ni K Se Ag SiO ₂ Na Sr Hg: 1631/245.1/	Yes No (N/A) Temperature Reading:	H ₃ PO ₄ : HP	
Ni K Se Ag SiO ₂ Na Sr Hg: 1631/245.1 /	Yes No (N/A) Temperature Reading: 2-7 . C. Corrected Temperature . 2-7 . C. Corrected Temperature.		
Ni K Se Ag SiO ₂ Na Sr-Hg: 1631/245.1/	Yes No N/A Temperature Reading: 2-7		3
Ni K Se Ag SiO ₂ Na Sr Hg: 1631/245.1/	Corrected Temperature	Zn Acetate+NaO	OH: Zn
Ni K Se Ag SiO ₂ Na Sr Tl Sn Hg: 1631/245,1/7477 stated.	Collected leniberature:	NaOH+Ascorbic A	: Acid: SAPC
Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Z Hg: 1631/245.1/7470 /747	Matrix Date Time Depth Grab/ # of	Sample Co	omments
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Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Z Hg: 1631/245.1/7470 /747	000		
Vi K Se Ag SiO ₂ Na Sr Tl Sn U V Z Hg: 1631/245.1/7470 /747			
Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Z Hg: 1631/245.1/7470/747			
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Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Z Hg: 1631/245.1/7470 /747			
Ni K Se Ag SiO ₂ Na Sr Tl Sn U V 7 Hg: 1631 / 245.1 / 7470 / 747 stated.			
Ni K Se Ag SiO ₂ Na Sr Tl Sn U V 7 Hg: 1631 / 245.1 / 7470 / 747 bitated.	76		
Ni K Se Ag SiO ₂ Na Sr Tl Sn U V 7 Hg: 1631/245.1/7470 /747	1		
Hg: 1631 / 245.1 / 7470 / 747	200.8 / 6020: / 8RCRA 13PPM Texas 11 Al Sb As Ba Be B	Vi K Se Ag SiO ₂	
ument and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions ill be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control im charge of \$55.00 will be applied to each project and a charge of \$55 for each sample submitted to Euroffins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Received by: (Signature) Received by: (Signature) A A A A A A A A A A A A A	nd Metal(s) to be analyzed TCLP / SPLP6010 : 8RCRA Sb As Ba Be C	Hg: 1631 / 245.1 / 7470 /	
eceived by: (Signature)	ice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns sta vice. Eurofins Xenco will be lable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circum surofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enfo	standard terms and conditions Imistances beyond the control nforced unless previously negotiated.	
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State Stat	Supplement A 360 Euricoment Sulpipe Company Name: Soso Us Hwy 285 Address: Address: Address: Address: Address: Chos TX Turn Around Email: Wis f O Location: City, State 2IP: Email: Wis f O Location: Custody Seals: Ves No Wet Ice Ves No Wet Ice Ves No Wet Ice Ves No Corrected Temperature: Component Temperature:	Program: UST/PST PRP Brownfield State of Project: Reporting: Level III Level IIII PST/US Deliverables: EDD ADaPT None N
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Control Cont	thame:	ANALYSIS REQUEST ANALYSIS REQUEST Cool: HCL: HCL: HCL: HCL: HCL: HCL: HCL: HCL
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Figure F	Characteristics	None: NO Cool: Cool HCL: HC HyS04: H ₂
Cooi: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : H ₂ H ₃ PO ₄ : H ₂ NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH NaOH+Ascorbic Ac Sample Con Sample Con Sample Con History Na St TI Sn U V Zn Hg: 1631/245.1/7470 / 7471	The late of the la	Cool: Cool HCL: HC H2S0 4: H ₂
HCLHC Hclh	TAT starts the day received by the lab, if received by 4.30pm PLE RECEIPT Custody Seals: Custody Seals: Conrected Temperature Regards: Conrected Temperature: Contrainers: Conrected Temperature: Conrected Temperature: Comp CC	HCL: HC
12 ERCEIPT Temp Bight: Yes No Wetter Yes No Thermoneuror ID: Each of Not Thermoneuror ID: Each of ID: Ea	The fact in the lab in	H ₂ SO ₄ :H ₂
i K Se Ag SiO ₂ Na Sr Hg: 1631/245.1/	Temp Blank: Yes No Wet Ice; Yes No Yes No Thermometer ID: Yes No N/A Correction Factor: Corrected Temperature: Corrected Temperature: The Date Time Depth Grab/# Sampled Sampled Comp CC	
i K Se Ag SiO ₂ Na Sr Hg: 1631/245.1/	Yes No N/A Correction Factor: Yes No N/A Temperature Regaing: Corrected Temperature: Corrected Temperature: Apply Tod 4 Mr	H ₃ PO ₄ : HP
i K Se Ag SiO ₂ Na Sr Hg: 1631/245.1/	Seals: Yes No N/A Temperature Reading: y Seals: Yes No N/A Temperature Reading: Corrected Temperature: Corrected Temperature: Apply 7:0 4 Am Complete Comp Complete Complete Comp Complete Complete Comp Complete Complete Comp Complete Complete Complete	NaHSO 4: NAB
i K Se Ag SiO ₂ Na Sr Hg: 1631/245.1/	s: Corrected Temperature: Sampled Sampled Grab/ # Identification Matrix Sampled Sampled Comp Comp 7 My 7: 4 / Mm	Na ₂ S ₂ O ₃ : NaSi
i K Se Ag SiO ₂ Na Sr Hg: 1631/245.1/	Identification Matrix Sampled Sampled Comp Comp Comp Comp Comp Comp Comp Comp	Zn Acetate+N
i K Se Ag SiO ₂ Na Sr Tl Sn Hg: 1631/245.1/747	Identification Matrix Sampled Sampled Comp Comp Comp Comp Comp Comp Comp Comp	NaOH+Ascorb
	7 20 4 100	Sample
		
 		
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Ξ Α		
Hg: 1631 / 245.1 / 7470 /	8RCRA 13PPM Texas 11 Al	B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Z
	Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba B	
	Relinquished by: (Signature) Received by: (Signature) Date/Time	eceived by: (Signature)
Date/Time Relinquished by: (Ṣignature)	1 de Marien 7 100 104	2
Date/Time Relinquished by: (Ṣignature) Received by: (Signature)		4
Date/Time Relinquished by: (Signature) Received by: (Signature)		9

Login Sample Receipt Checklist

Client: R360 ES Holdings Inc Job Number: 890-6947-1

Login Number: 6947 List Source: Eurofins Carlsbad

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	

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Login Sample Receipt Checklist

Client: R360 ES Holdings Inc Job Number: 890-6947-1

List Source: Eurofins Midland
List Number: 2
List Creation: 07/23/24 08:17 AM

Creator: Vasquez, Julisa

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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.	True	
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	N/A	

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<6mm (1/4").



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 www.tceq.texas.gov/field/ga/lab accred certif.html.

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.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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, SM4500CI-B	mg,	/kg	Analyze	d 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	
TPH TX1005	mg,	/kg	Analyze	d 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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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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

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

Page 3 of 4

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ity:	State: Zip:	Attn: Nicholas Poole		
hone #:	Fax #:			
roject #: 2126- MD-0257 &	7 8 Project Owner:	City:		
roject Name: R360 R	a	State: Zip:		
roject Location:	DA 46 0	+		
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yees. All claims including those for negligence and any other cause v ce. In no event shall Cardinal be liable for incidental or consequental tips or successors arising out of or related to the performance of serv	yeer. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable ce. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subdidaries, the or successions arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or other services.	is way, when we assent to the amount plate by the cigent for the received by Cardinal within 30 days after completion of the ses of use, or loss of profits incurred by client, its subsidiaries based upon any of the above stated received.	me applicable es,	
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elivered By: (Circle One) mpler - UPS - Bus - Other:	Corrected Temp. °C3 3: Sample Condition Cool Intact	On CHECKED BY: Turnaround Time: (Initials) Thermometer ID #444 Correction Factor of the	Standard Bacteria (only) S Rush Cool Intact Per Pres Rush Pres Rush Pres Rush Pres Rush Pres Rush Rush Rush Rush Rush Rush Rush Rush	ample Condition Observed Temp. °C
	† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	ges. Please email changes to cele		

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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 379245

QUESTIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379245
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1619432451
Incident Name	NAB1619432451 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	07/03/2016
Surface Owner	Federal

ncident Details		
Please answer all the questions in this group.		
Incident Type	Produced Water Release	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

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.			
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 25 BBL Recovered: 0 BBL Lost: 25 BBL.			
Is the concentration of chloride in the produced water >10,000 mg/l	Yes			
Condensate Released (bbls) Details	Not answered.			
Natural Gas Vented (Mcf) Details	Not answered.			
Natural Gas Flared (Mcf) Details	Not answered.			
Other Released Details	Not answered.			
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.			

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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 2

Action 379245

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUESTI	ONS (continued)
Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
QUESTIONS	[0-141] Regulation Report 0-141 (0-141-v-Regulation)
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.	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 s	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.
	I ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of led or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses 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

Name: Christian LLuLL Title: Project Manager

Date: 08/29/2024

Email: christian.llull@tetratech.com

I hereby agree and sign off to the above statement

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

QUESTIONS, Page 3

Action 379245

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379245
	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 and 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	Between 1000 (ft.) and ½ (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 prov	vided 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 demonstrating the lateral and vertical extents of soil contar	mination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated	Yes		
Was this release entirely contained within a lined containment area	No		
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)			
Chloride (EPA 300.0 or SM4500 Cl B)	14600		
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 NMAC unless the site characterization report includes co which includes the anticipated timelines for beginning and completing the remediation.	ompleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,		
On what estimated date will the remediation commence	08/01/2024		
On what date will (or did) the final sampling or liner inspection occur	08/01/2024		
On what date will (or was) the remediation complete(d)	08/15/2024		
What is the estimated surface area (in square feet) that will be reclaimed	20700		
What is the estimated volume (in cubic yards) that will be reclaimed	2700		
What is the estimated surface area (in square feet) that will be remediated	20700		
What is the estimated volume (in cubic yards) that will be remediated	2700		
These estimated dates and measurements are recognized to be the best guess or calculation	ion at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
	sted 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.

District I

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 379245

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379245
	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 appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site 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

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.

Released to Imaging: 9/6/2024 10:27:57 AM

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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 379245

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379245
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
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

District I

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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 379245

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Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379245
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	367770
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		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	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.	

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 (in .pdf format) 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.

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.

Name: Christian LLuLL
Title: Project Manager
Email: christian.llull@tetratech.com
Date: 08/29/2024

What was the total volume of replacement material (in cubic yards) for this site

District I

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

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

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

1220 S. St Francis Dr., Santa Fe, NM 87505 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 7

Action 379245

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379245
	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 realization surface area (in square fact) for this site	10000

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 than 600 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 material 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. 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 responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13

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.

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

District I
1625 N. French Dr., Hobbs, NM 88240
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QUESTIONS, Page 8

Action 379245

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379245
	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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CONDITIONS

Action 379245

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	379245
	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