

July 23, 2025

Ashley Maxwell
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 8824

Re: REVISED Site Summary Report

Work Plan

ConocoPhillips (COG Operating LLC)
Way South State Com #001H Tank Battery

Unit Letter A, Section 30, Township 26 South, Range 28 East

Eddy County, New Mexico Incident ID# NRM2008650013

Ms. Maxwell:

Tetra Tech, Inc. (Tetra Tech) was contracted by ConocoPhillips to evaluate a release that ensued from a site glass failure at a free water knockout (FWKO) at the (former COG Operating LLC) tank battery associated with the Way South State Com #001H (API# 30-015-37234). The release footprint is located in Public Land Survey System (PLSS) Unit Letter A, Section 30, Township 26 South, Range 28 East, in Eddy County, New Mexico (Site). The approximate release point occurred at coordinates 32.018720°, -104.119516°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report (Appendix A), the release was discovered on December 25, 2019. The release was caused by a site glass failure on a free water knockout (FWKO). All of the fluids were reportedly contained inside the unlined facility firewall. Approximately four (4) barrels of crude oil and six (6) barrels of produced water were released. The reported concentration of dissolved chloride in the produced water was not greater than 10,000 mg/L. A vacuum truck was dispatched immediately to remove all freestanding fluids. COG recovered three (3) barrels of crude oil and 5 barrels of produced water. The New Mexico Oil Conservation Division (NMOCD) received the initial C-141 on January 9, 2020. The NMOCD Incident ID for this release is NRM2008650013.

NMOCD REJECTION

The Site Summary Report and Closure Request was initially prepared and submitted to the NMOCD on November 15, 2024. The NMOCD rejected the submitted report in an email dated November 15, 2024 with the following comments:

- "C141 denied. The submitted report is titled as a closure report but submitted as a site/characterization Remediation Plan. Please resubmit the report as a closure request.
- Submit a closure request report via the OCD permitting portal by December 13, 2024."

NMOCD CORRESPONDENCE

Tetra Tech and NMOCD discussed the rejection of the report in various email correspondence and conference calls. After additional review and associated extension approvals, NMOCD requested the following additional information to be collected and incorporated into a revised report:

Tetra Tech

901 West Wall St., Suite 100, Midland, TX 79701

Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

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- Analysis of a produced water sample collected from the facility (On Monday, January 27, 2025, OCD: ...Do you know if there was ever a sample collected of the produced water from the site? In the report is states that it was reported as having less than 10,000 mg/L TDS. I would also be curious what the actual chloride level is.)
- Following additional correspondence on February 5, 2025, Ashley Maxwell, NMOCD stated: I've spoken with my supervisor, Cory Smith, regarding a path forward. Please collect a produced water sample for the site and include the results with the report you previously submitted. Submit that report via the OCD permitting portal. The report will be submitted as a Remediation Work Plan.
- Further information regarding the number of wells and location of the wells installed for the release assessment.

This REVISED Site Summary Report and Work Plan has been prepared to satisfy the NMOCD's request for additional information and revised deliverables. The additional information and updated evaluation of assessment data have been incorporated into the appropriate sections. A copy of the regulatory correspondence is included in Appendix B.

SITE CHARACTERIZATION

The initial site characterization data is included in the previous document submittals. As proposed in the REVISED Work Plan Addendum, additional background soil analytical data was collected in 2024 and used to evaluate the site characterization. The additional assessment and site characterization data are detailed in subsequent sections of this report.

No sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, or subsurface mines are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). However, there are two OSE stream bodies within 300 feet of the lateral extents of the release and the Site is located in a FEMA Zone A floodplain. The Site is also in an area of high karst potential. The site characterization data is included in Appendix C.

Groundwater was encountered at shallow depths in this area, ranging from 18-20' below ground surface (bgs) in the three (3) monitoring wells installed in the release area in April 2024. However, the groundwater encountered in all three wells had analyzed total dissolved solids (TDS) concentrations above 10,000 mg/l. Details regarding the 2024 groundwater monitoring wells and analyzed groundwater quality are provided in subsequent sections of this report. Boring logs are included in Appendix D.

DEFAULT REGULATORY FRAMEWORK

Based upon the release footprint and 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 (high karst and shallow groundwater) and in accordance with Table I of 19.15.29.12 NMAC, the default RRALs for the Site are as follows:

Constituent	RRAL
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

However, the 19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release are based on the minimum depth below any point within the horizontal boundary of the release to ground water less than

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10,000 mg/l TDS. The shallow groundwater encountered at the Site had analyzed TDS concentrations greater than 10,000 mg/l, as detailed in subsequent sections of this report.

LAND OWNERSHIP AND PERMITTING

The Site is located on State Trust lands managed by the New Mexico State Land Office (SLO). An archaeological survey within the surrounding pasture area was conducted by a licensed firm on April 17, 2023, in accordance with the Cultural Properties Protection (CPP) Rule. The report was submitted to the NMSLO, and the SLO cleared the Site for right of entry and soil borings following a review of the survey.

The activities proposed in the REVISED Work Plan Addendum required considerable coordination with several regulatory entities, including the Environmental Compliance Office (ECO) Surface Resources Division of the New Mexico State Land Office (NMSLO); the Oil, Gas and Minerals Division of NMSLO (for MW Easement, Right of Entry Permit, and soil borings); and the New Mexico Office of the State Engineer. The applicable associated permitting documents are found in Appendix E:

- NMCRIS 152756 Archaeological Survey
- WM-689 SLO MW Easement
- WE-0818 SLO Soil Boring Permit
- C-4784 NMOSE Permit and Plugging Plan

PREVIOUS ASSESSMENT ACTIVITIES AND DOCUMENT SUBMITTALS

WORK PLAN (SEPTEMBER 23, 2020)

The release area footprint occurred in the vicinity of production equipment including the heater treater, horizontal FWKO's and multiple steel surface lines. The reported release footprint measured approximately 25 feet by 60 feet inside the earthen facility walls. COG initially assessed the impacts at the Site with a Geoprobe (direct push) drilling rig on April 7, 2020 (BH-1). Vertical delineation was not achieved during the sampling event due to refusal encountered at 7't bgs. Assessment activities and a description of the Site are documented in the initial COG Work Plan (dated September 23, 2020). The Work Plan also proposed additional evaluation within the facility firewalls to determine access, background trenches to evaluate chloride, and a follow-up Work Plan or Deferral Report.

Results from the April 2020 soil sampling event are summarized in Table 1. Analytical results were directly compared to the default 19.15.29 NMAC Table I Closure Criteria for Soils Impacted by a Release for areas where groundwater is encountered at depths less than 50 feet below surface. Analytical results from all soil sampling intervals collected from boring BH-1 exceeded 600 mg/kg for chloride in soils, with a bottom chloride of 1,840 mg/kg at 7.0' below surface. All other analytical results from the April 2020 sampling event were below 100 mg/kg for TPH and 50 mg/kg for BTEX. The boring location is indicated on Figure 3.

The original Work Plan associated with the incident was submitted to NMOCD by COG via email and marked received on September 26, 2020. The Work Plan was denied by NMOCD on March 8, 2021. The regulatory decision is documented in the OCD Permitting Incident Events details.

ADDENDUM WORK PLAN (APRIL 15, 2021)

Based on the rejection, an Addendum Work Plan (dated April 15, 2021) was drafted by COG and submitted to the NMOCD. In the Addendum Work Plan, COG described how an additional access point inside the firewall was located east of the production equipment, and an air rotary drilling rig was used to further delineate impacts in the release footprint (Bore Hole-1) on December 14, 2020. The boring was terminated at 20' bgs, vertical delineation was not achieved, and the plan reported encountering shallow groundwater during drilling. The Work Plan Addendum also proposed background trenches to evaluate chloride, permitting, installation, and sampling of monitoring well(s), and a follow up Work Plan or Abatement Plan.

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Results from the December 2020 soil sampling event are summarized in Table 1. Analytical results associated with Bore Hole-1 exceeded 600 mg/kg for chloride in soils, with a bottom chloride of 1,490 mg/kg at 19-20' below surface. However, soil samples were analyzed for chloride only. The boring location is indicated on Figure 3.

The Addendum Work Plan was then submitted to NMOCD by COG via email. The Addendum Work Plan was rejected by NMOCD on April 18, 2023, for the following reasons:

- "The Remediation Plan Addendum is Denied. Please, make sure a C-141 page 5 "Remediation Plan" page is signed and filled out at time of submission.
- This release is within a 100-year floodplain and high karst area and will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. The temporary monitoring well installation will allow COG to verify that there is no groundwater impact. The boring should be drilled safely and purged. A groundwater sample should include general chemistry including major cations and anions.
- Please keep the OCD up to date on the groundwater sample results. An additional meeting may be necessary in the future to discuss the results. The work will need to occur in 90 days after the work plan has been reviewed."

The regulatory decision is documented in the OCD Permitting Incident Events details.

REVISED WORK PLAN ADDENDUM (AUGUST 22, 2023)

A REVISED Work Plan Addendum dated August 22, 2023 was drafted in response to the NMOCD review of Addendum Work Plan (dated April 15, 2021), and, based on calls and the most recent rejection of said Addendum Work Plan to include a complete signed C-141 (including the page 5 Remediation Plan) as requested by NMOCD.

The REVISED Work Plan Addendum included a summary of background sampling (including legacy historical) and analytical results associated with the release vicinity. As a reference, historical incident nJMW1309539213 occurred at the Way South facility in March 2013, and that legacy footprint was just west of the facility firewall. The incident footprint was assessed and two trenches outside of the footprint were completed as a portion of the assessment work. Background soil results from (background trench) BGT-1 and BGT-2, installed on January 8, 2013, indicated chloride concentrations exceeding the current RRAL of 600 mg/kg in subsurface soils. Results from the 2013 background sampling event are summarized in Table 2. Analytical results in the subsurface range from 2,160 mg/kg to as high as 3,650 mg/kg at 4' bgs. The boring locations are indicated on Figure 3.

The REVISED Work Plan Addendum proposed additional soil and groundwater sampling to collect additional background soil chloride concentration data and to evaluate groundwater quality in the release area and surrounding vicinity of this current release. The REVISED Work Plan Addendum was approved by the SLO on August 23, 2023 and by the NMOCD on February 16, 2024. Copies of the regulatory correspondence are included in Appendix B. In accordance with the approved REVISED Work Plan Addendum, Tetra Tech conducted a series of field activities.

2024 ADDITIONAL BACKGROUND SOIL BORINGS

Three (3) background soil borings (BG-2, BG-3, and BG-4) were installed in the release vicinity on April 16-18, 2024 to a total depth of 20' bgs each. Additionally, in the same mobilization, another background boring (BG-24-1) was drilled to 20' bgs for the nearby Way South Tin Horn Release (Incident ID nAB1821441824). Although this boring was installed approximately 230' west of the subject release, those results are also included for reference. These borings were completed using a truck-mounted air rotary drilling rig.

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Soil samples were collected on approximate one-foot intervals. Samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of TPH (Method 8015 modified), BTEX (Method 8021B), and chloride (EPA Method 300 or SM4500Cl-B). The boring locations are indicated on Figure 4.

2024 BACKGROUND BOREHOLES

Environmental soil samples were collected during this drilling mobilization. Samples were collected from the four (4) background borings on continuous 1-foot intervals. A total of one hundred and one (101) soil samples were collected from the background borings. The collected samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for analysis. For the background borings, collected samples were only analyzed for chlorides via EPA Method SM4500Cl-B. A copy of the laboratory analytical reports and chain of custody documentation are included in Appendix F.

2024 SAMPLING DURING DRILLING OF MONITORING WELLS

Samples were also collected from the borings associated with the monitoring well locations prior to the monitoring well installation, from seven (7) individual soil intervals (0-1', 3-4', 5-6', 7-8', 9-10', 14-15', and 19-20'). Thus, a total of twenty-one (21) soil samples were collected from the three (3) monitoring well borings and sent to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for chlorides via EPA Method SM4500Cl-B, TPH via EPA Method 8015M and BTEX via EPA Method 8021B. A copy of the laboratory analytical reports and chain of custody documentation are included in Appendix F.

SUMMARY OF ANALYTICAL RESULTS

Soil analytical results from the April 2024 background soil boring drilling activities are summarized in Table 2. The analytical results associated with the various background locations indicate that natural chloride concentrations range from 96 mg/kg to as high as 2,960 mg/kg at soil intervals from the surface down to 20' bgs.

Soil analytical results from the April 2024 monitoring well drilling activities are summarized in Table 3. At MW-1, located on pad adjacent to the release extent, chloride concentrations exceeded the RRAL of 600 mg/kg in the 14-15' of 992 mg/kg sample interval. The remainder of the analytical results are below the RRAL. At MW-2, located in pasture north of the lease pad, chloride concentrations exceeded the RRAL of 600 mg/kg in all analyzed samples ranging from 688 mg/kg at 19-20' to 2,680 mg/kg at 0-1'. At MW-3, located off pad, southeast of the lease pad, there were no chloride concentrations above 600 mg/kg in any of the analyzed samples. Additionally, there were no TPH or BTEX concentrations above the Table I limits of 100 mg/kg and 50 mg/kg, respectively, in any of the analyzed samples.

2024 MONITORING WELL INSTALLATION

As directed by NMOCD, and in accordance with the approved plan, on April 17-18, 2024, ConocoPhillips installed three (3) permanent monitoring wells (MW-1, MW-2 and MW-3) at the Site to determine groundwater quality in the release area.

The number and locations of the monitoring wells were agreed upon in a meeting between the NMOCD, ConocoPhillips, and Tetra Tech in December 2022 and then approved by the NMOCD in the REVISED Work Plan Addendum. The number of wells (3) was determined as the minimum number required to establish a gradient. MW-1 was installed near the initial release extent (on pad) to assess the groundwater immediately beneath the release area footprint. Monitoring wells MW-2 and MW-3 were installed approximately 350' north and 320' east of the release area (in pasture), respectively, at locations based on their direction and proximity to Owl Draw in accordance with guidance provided by the NMOCD. Monitoring well locations are indicated in Figure 4.

The monitoring wells were installed by a water well driller licensed in the State of New Mexico. During drilling, soils were logged continuously to the base of the boring. A Tetra Tech field geologist logged the

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soil characteristics along with any other pertinent information. All three monitoring wells were installed to total depths of 30' bgs.

The monitoring wells were constructed of 2-inch diameter, flush-joint threaded PVC pipe with 20' of 0.010 inch slot well screen. The casing extended from the top of the screen to at least one-foot above ground surface. The top of the casing was fitted with a removable cap. The screened interval length and elevation was determined in the field. A filter pack was installed around the screen by filling the annular space from the bottom of the screen to 2 feet above the top of the screen with clean 20/40 silica sand. The well was surged or bailed to settle the filter pack and additional sand added, prior to emplacing the bentonite seal.

A bentonite seal was constructed immediately above the filter pack by emplacing bentonite chips (3/8-inch in size or smaller) in a manner that prevents bridging of the chips/pellets in the annular space. The bentonite seal was 3 feet in thickness and hydrated with clean water. Adequate time was allowed for expansion of the bentonite seal before installation of the annular space seal. The annular space above the bentonite seal was sealed with cement grout. The exposed casing was protected by a locking steel well shroud. The soil observations and well construction details were recorded. Boring logs, including well construction diagrams, are included in Appendix D. After completion, the wells were purged to remove approximately 5 gallons of water and developed.

On April 30, 2024, Surveying and Mapping, LLC (SAM) were onsite to survey the three (3) monitoring wells for location and elevation. The survey map is presented in Appendix E. On June 5, 2024, Tetra Tech personnel returned to the Site to regauge the wells. The June 2024 groundwater elevation data is summarized in Table 4.

Based on the groundwater gradient, the groundwater flow is from west to east towards Owl Draw, following the surface topography. The potentiometric surface map for groundwater at the Site, generated based on the survey data and June 5, 2024 groundwater surface elevation data, is presented in Figure 5.

2024 MONITOR WELL GROUNDWATER SAMPLING AND RESULTS

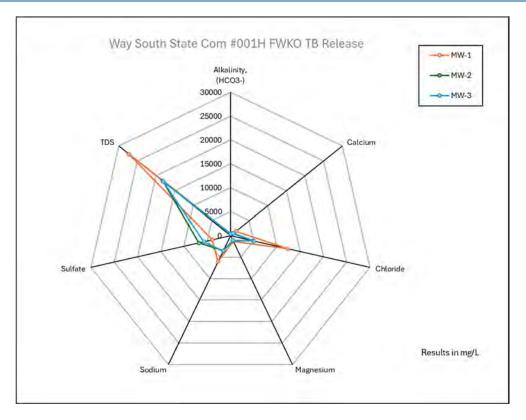
After completion of the monitoring well installation, stabilization, and development, Tetra Tech personnel collected initial groundwater samples from the three wells on April 17 and 18, 2024. The monitoring wells were hand purged to remove 3 casing volumes (approximately 3 gallons) until water quality parameters measured with a multiparameter digital water quality meter (temperature, dissolved oxygen, conductivity, salinity, total dissolved solids (TDS), and pH) stabilized.

After purging, groundwater samples were then collected from the wells using a dedicated disposal bailer for to be analyzed for chlorides, BTEX, TPH, Cation/Anion (includes pH and TDS), Dissolved Iron, and Dissolved Manganese. Samples were submitted to Cardinal in Hobbs, New Mexico. Copies of the analytical report and chain-of-custody are included in Appendix F.

The laboratory analytical results from the April 2024 groundwater sampling event are summarized in Table 5. Analytical results associated with the collected samples from all three monitoring wells indicate TDS concentrations above 10,000 mg/L. TDS analytical results range from 18,000 mg/L in MW-3 to 27,300 mg/L in MW-1.

The analytical results associated with groundwater from MW-2 and MW-3 indicated little variation between the two locations. The analytical results associated with the groundwater sample collected from MW-1 (installed immediately adjacent to the release extent on the downgradient side), contained higher TDS, chloride, and sodium concentrations and a lower sulfate concentration than those analyzed from MW-2 and MW-3, as visually presented in the star plot below.

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2025 PRODUCED WATER SAMPLING AND RESULTS

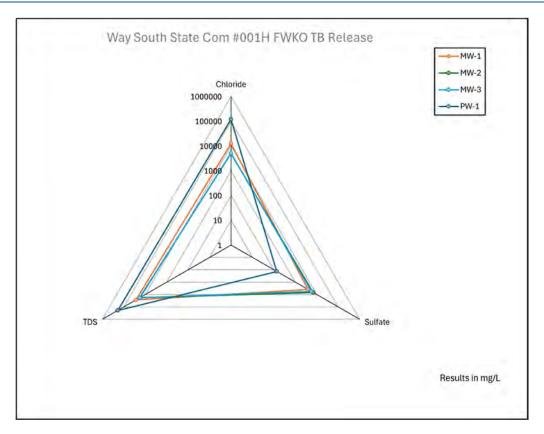
To comply with NMOCD directives following review (and rejection) of the original Site Summary Report and Closure Request, ConocoPhillips personnel collected a produced water sample from the Way South State Com #001 Tank Battery facility. Produced water sample PW-1 was collected on March 27, 2025 and submitted to Cardinal in Hobbs, New Mexico to be analyzed for chloride, TDS, and sulfate. Copies of the analytical reports and chains-of-custody are included in Appendix F.

The laboratory analytical results from the March 2025 produced water sampling event are summarized in Table 6. The produced water results were 191,000 mg/L TDS, 120,000 mg/L chloride, and 138 mg/L sulfate.

The produced water analytical results exhibit a fingerprint which is distinct and different from the April 2024 groundwater monitoring results. Lines of evidence follow:

- 1. The chloride and TDS concentrations in the produced water sample were each an order of magnitude greater than the concentrations in groundwater from the three monitoring wells.
- 2. The sulfate concentration in the produced water at the facility was approximately two orders of magnitude less than in the groundwater, as illustrated in the logarithmic scale star plot below.
- If the produced water had affected the groundwater, the sulfate concentration in the groundwater would be less than the concentration found in the produced water, and the data indicates the opposite. This likely indicates that groundwater has not been impacted by the produced water release.

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LOCAL GEOLOGY AND HYDROLOGY

Soils at the Site consist of loamy sands, silts, and clays of the Cottonwood-Reeves loams and the Gypsum land-Cottonwood complex. Parent material is residuum weathered from gypsum. The underlying geologic regime at the Site includes floodplain alluvium and terrace deposits. The surface topography slopes toward Owl Draw to the northeast, which drains water to the southeast towards the Delaware River during heavy rain events. Shallow groundwater generally follows surface topography. Local soil and geology data is included in Appendix G.

Heavy rain fell over southeastern New Mexico during 2013 and 2014, especially in the Loving and Malaga areas. Extreme variability in the rainfall created flash flooding which affected significant portions of the drainage areas surrounding the Site. Several adjacent batteries and lease pads were damaged by the flooding events, as evidenced in historical imagery.

As described in previous sections, background soil borings associated with this Site indicate chloride concentrations, in both shallow and deeper soils, which exceed the default 19.15.29 NMAC Table *I Closure Criteria for Soils Impacted by a Release* for areas where groundwater is encountered at depths less than 50 feet below surface. Gypsum was observed at various soil intervals in all of the 2024 assessment borings, as documented in Appendix D.

REVISED EVALUATION OF SITE CHARACTERIZATION AND ASSESSMENT DATA

As discovered through analysis and research, conflicting information regarding the concentration of dissolved chloride in the produced water at the facility was presented in the incident files. While the OCD Permitting details indicated that the concentration of dissolved chloride in the produced water release source was not greater than 10,000 mg/L, the initial C-141 form (Appendix A) did indeed document that chloride in the produced water was greater than 10,000 mg/L. A produced water sample collected from the facility in March 2025 was analyzed for chloride, TDS, and sulfate (Table 6). The chloride results of the produced water sample were 120,000 mg/L, well above 10,000 mg/L.

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CHLORIDE DATA IN SOILS VERSUS PRODUCED WATER

During the initial assessment work at BH-1 (circa April 2020), the initial analytical results collected from within the release footprint ranged from 6,960 mg/kg chloride at the surface to 1,840 mg/kg in the subsurface. In the subsequent assessment work at Bore Hole-1 (circa December 2020), concentrations ranged from 859 mg/kg to 3,880 mg/kg chloride in all samples collected. The scale of the chloride concentrations in soil within the release extent, while elevated above Site RRALs, do not indicate soil impacts from the release commensurate with these produced water chloride concentrations.

In a review of the recently collected groundwater data, TDS and chloride were detected at higher concentrations in groundwater collected from monitoring well MW-1 (installed immediately adjacent to the release extent within the facility) than in groundwater collected from the MW-2 and MW-3 monitoring wells (each located more than 300' from the release footprint in pasture areas). Analytical results indicate that groundwater collected from MW-1 is anomalous in comparison to MW-2 and MW-3, however, the analytical results indicated little significant variation between the groundwater collected from MW-2 and MW-3. The data do not indicate that the observed groundwater quality is due to the documented release impacts from the initial 2019 release volumes. The initial C-141 reported release volumes of 4 bbls crude oil with 3 bbls recovered, and 6 bbls produced water with 5 bbls recovered, for a total volume loss of 1 bbl crude oil and 1 bbl produced water.

BACKGROUND CHLORIDE DATA IN SOILS

Background soil concentrations collected from multiple locations, including two borings installed and sampled in 2013 for a separate release incident (prior to the subject release event) and the two off-pad monitoring well locations (MW-2 and MW-3), indicate background chloride concentrations that are highly variable across boring locations and depth intervals. The highly variable background chloride analytical results observed in soils throughout the area could be due to soil moisture fluctuations related to rainfall variability and flooding events concentrating salts in surface soils, impacts from damaged upstream facilities, or a combination of factors. Conversely, the elevated background chloride concentrations could be attributed to local geologic variability of parent material and or gypsum content. However, there was no observed correlation between gypsum in the soil column and analyzed chloride content.

A comparison between the chloride concentrations in soil samples collected from the monitoring well locations and the analyzed groundwater quality results do not indicate a correlation between chloride concentrations in unsaturated soils and the groundwater quality immediately below. Groundwater analytical results for pasture area wells MW-2 and MW-3 were 5,000 mg/l and 5,100 mg/l for chloride and 18,100 mg/l and 18,000 mg/l for TDS, respectively. However, soil chloride concentrations in MW-2 ranged from 2,680 mg/kg from the surface down to 688 mg/kg at 19-20', and soil chloride concentrations in MW-3 ranged from 48 mg/kg to 368 mg/kg in all analyzed samples from the surface to 20' bgs.

The results of the site characterization and background soil sampling provide evidence that natural background chloride concentrations in soils elevated above the most stringent Table I RRALs occur with high three-dimensional spatial variability throughout the release area. The elevated chloride concentrations in the analyzed soil samples both in background soil borings and within the release extent do not cause an imminent risk to groundwater because the shallow groundwater in the area is naturally saline.

WORK PLAN

Table I of 19.15.29.12 NMAC lists closure criteria for soils impacted by a release based on a minimum depth between any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l. As documented previously in this report, the shallow groundwater present at the Site (in areas both on pad and in pasture areas) contains TDS concentrations above 10,000 mg/l. The depth and groundwater quality of the underlying groundwater bearing unit is unknown at this time. The inherent objective of 19.15.30 NMAC is to protect subsurface water so that ground water of the state that has a background TDS concentration of 10,000 mg/l or less is protected for designated or attainable uses as defined in 20.6.4

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NMAC. The 2024 groundwater assessment results indicate that shallow groundwater in the area is not subject to abatement in accordance with 19.15.30 NMAC.

Based on the results of the additional site characterization and release assessment activities, ConocoPhillips proposes to plug and abandon the permanent monitoring wells (MW-1, MW-2, and MW-3). Impacted soils in the release facility would be remediated at the time of facility abandonment. No groundwater abatement is proposed for the area as the shallow groundwater does not meet qualifying criteria in 19.15.30 NMAC and furthermore, any groundwater abatement would be ineffective.

CONCLUSION

This REVISED Site Summary Report and Work Plan was prepared in accordance with the approved REVISED Work Plan Addendum report and subsequent correspondence with the NMOCD. Based on the 2024 groundwater and background soil analytical results, and in conjunction with the revised site characterization, TDS and chloride concentrations detected in the monitoring wells represent naturally poor groundwater quality and are not subject to abatement in accordance with 19.15.30 NMAC.

ConocoPhillips proposes this work plan to plug and abandon the permanent monitoring wells installed for the 2024 assessment activities. Once the wells are properly plugged and abandoned, a final remediation closure report for the release site will be submitted to the NMOCD. In accordance with 19.15.29.12 and 19.15.29.13 NMAC, final reclamation of any remaining impact within the lease pad area shall take place once the Site is no longer being used for oil and gas operations. Therefore, reclamation of the soils located within the confines of the Way South State Com #001H Tank Battery pad will be completed upon the abandonment of the facility.

If you have any questions concerning the assessment activities, site characterization, or proposed work, please call me at (512) 739-7874.

Sincerely,

Tetra Tech, Inc.

Samantha K. Abbott, P.G.

Project Manager

Christian M, Llull, P.G. Program Manager

cc:

Mr. Ike Tavarez, RMR, ConocoPhillips Mr. Mike Bratcher, NMOCD ECO. NMSLO

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LIST OF ATTACHMENTS

Figures:

Figure 1 – Site Location and Overview Map

Figure 2 – Topographic Map

Figure 3 – Approximate Release Extent and Site Assessment (COG 2020)

Figure 4 – Approximate Release Extent, Background Borings, and Monitoring Well Locations (Tetra Tech 2024)

Figure 5 – Potentiometric Surface Map

Tables:

Table 1 – Summary of Analytical Results – 2020 COG Soil Assessment

Table 2 – Summary of Analytical Results – Background Soil Assessment

Table 3 – Summary of Analytical Results – Monitoring Well Soil Boring Assessment

Table 4 – Summary of Analytical Results – Groundwater Elevation Measurements (June 5, 2024)

Table 5 – Summary of Analytical Results – April 2024 Groundwater Assessment

Table 6 – Summary of Analytical Results – 2025 Produced Water Analysis

Appendices:

Appendix A – C-141 Forms

Appendix B - Regulatory Correspondence

Appendix C - Site Characterization Data

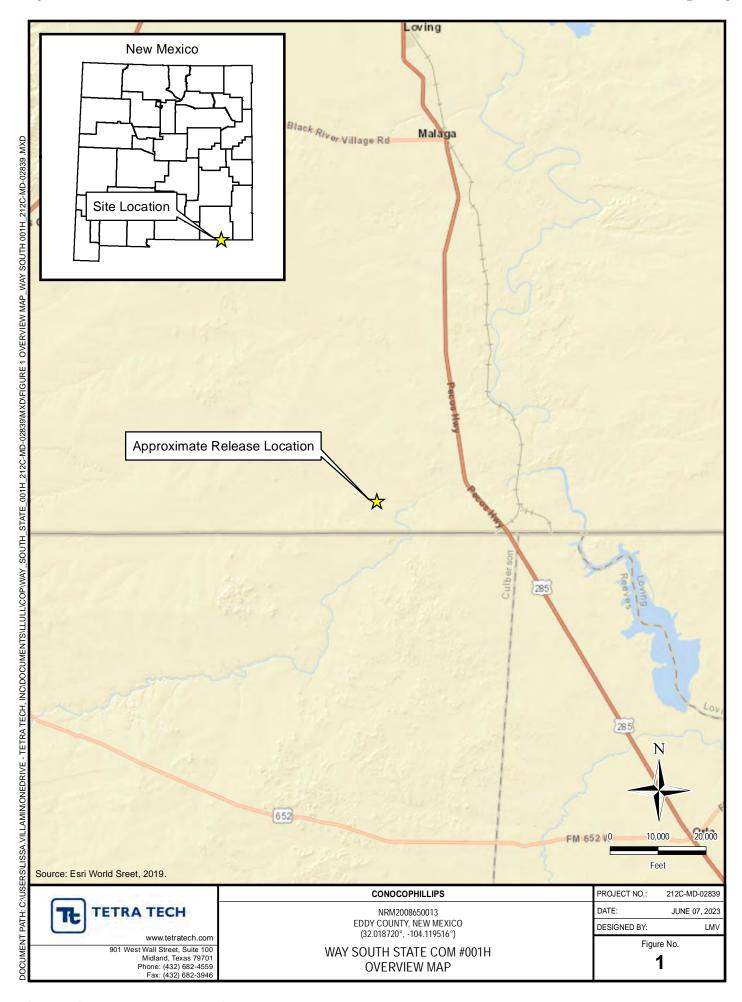
Appendix D – Boring Logs and Well Construction Diagrams

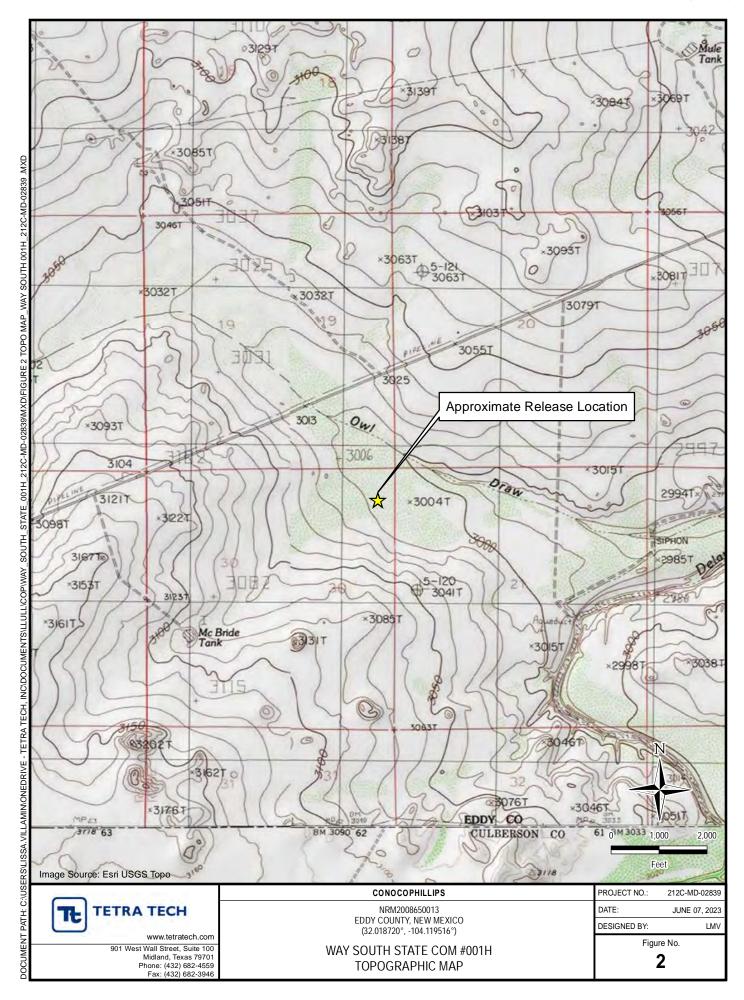
Appendix E – Cultural Survey and Permitting Documentation

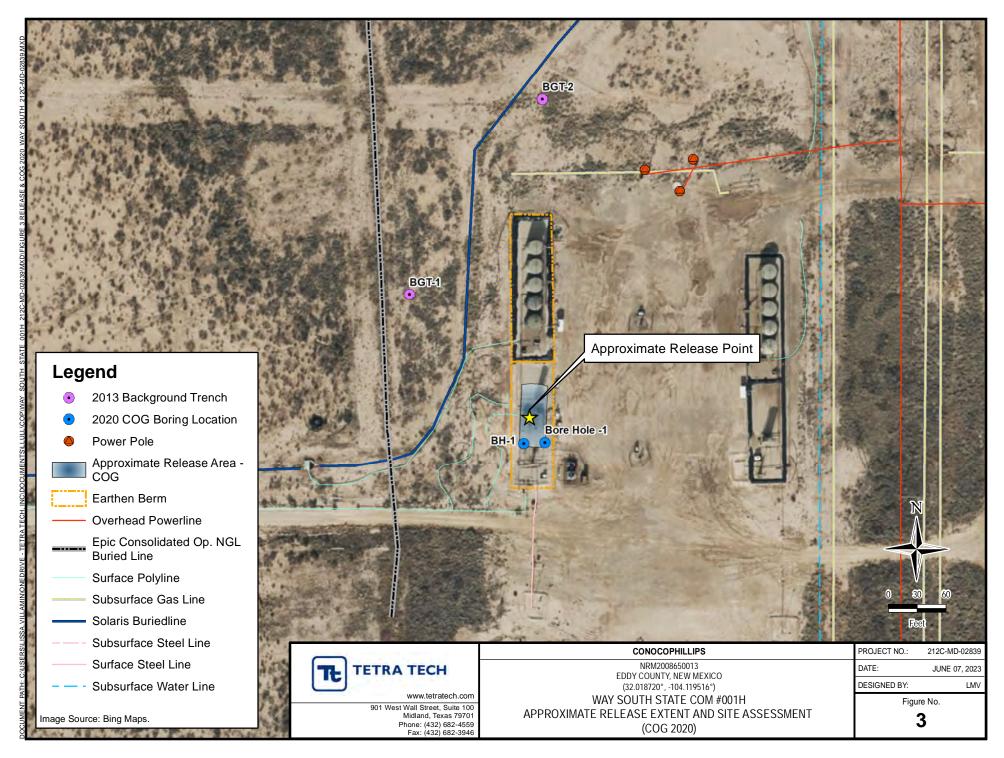
Appendix F - Laboratory Analytical Data

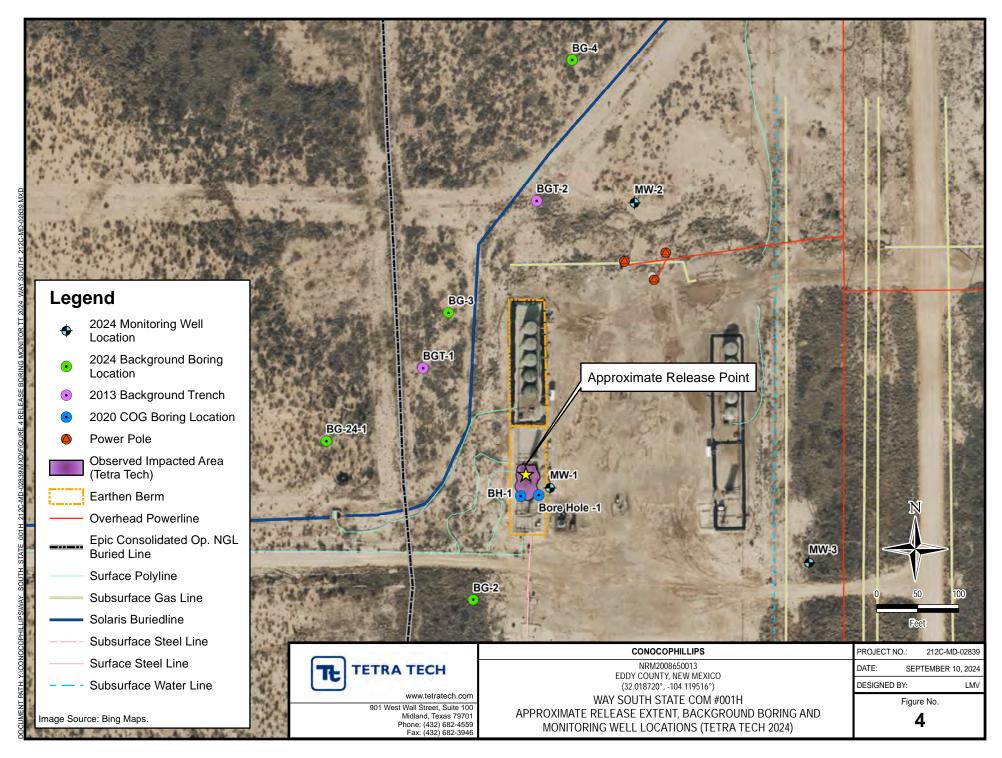
Appendix G – Local Soils and Geology Setting

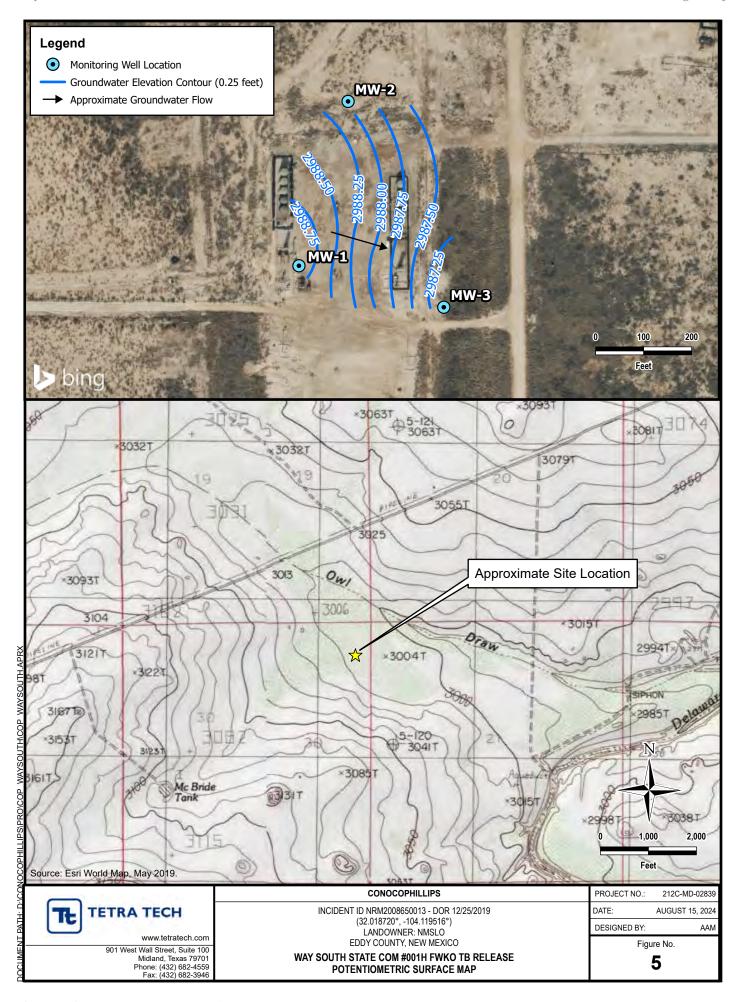
FIGURES











TABLES

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TABLE 1 SUMMARY OF ANALYTICAL RESULTS 2020 COG SOIL ASSESSMENT- nAB1821441824 CONOCOPHILLIPS WAY SOUTH STATE COM #001 FWKO RELEASE

EDDY COUNTY, NM

		Samula Danth	Chlada 1				BTEX ²					TF	PH ³	
Sample ID	Sample Date	Sample Depth	Chloride ¹	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	Total Xylenes	Total BTEX	GRO	DRO	MRO	Total TPH
		ft. bgs	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		1	6,960	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00201	<0.00201	<50.0	80.6	<50.0	80.6
		2	1,810	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8
BH-1* 4/7/2020		3	4,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/7/2020	4	1,130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		5	1,470	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		6	2,890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		7	1,840	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		0-1	859	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		3-4	<i>887</i>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		5-6	1,240	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bore Hole - 1	12/14/2020	7-8	1,450	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		9-10	2,250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		14-15	3,880	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		19-20	1,490	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

ft. Feet

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

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

MRO Motor Oil range organics

NS Sample not analyzed for parameter

Method SW8015 Mod

1 EPA Method 300.0

2 EPA Method 8021B

* - Installed with a Geoprobe Unit

TABLE 2 SUMMARY OF ANALYTICAL RESULTS BACKGROUND SOIL ASSESSMENT- nJMW1309539213 CONOCOPHILLIPS WAY SOUTH STATE COM #001H FWKO TANK BATTERY EDDY COUNTY, NM

						BTEX ²					TPH ³	
Sample ID	Sample Date	Sample Depth	Chloride ¹	Benzene	Toluene	Ethylhenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Total TPH
Sample 1D	Sample Date			belizelle	Toluelle	Ethylbenzene	Total Aylelles	TOTAL	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	(GRO+DRO+EXT DRO)
		ft. bgs	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		0-1	194	NA	NA	NA	NA	NA	NA	NA	NA	-
		2	995	NA	NA	NA	NA	NA	NA	NA	NA	-
Background Trench - 1	1/8/2013	4	2,160	NA	NA	NA	NA	NA	NA	NA	NA	-
	- , -,	6	2,170	NA	NA	NA	NA	NA	NA	NA	NA	-
		8	1,080	NA	NA	NA	NA	NA	NA	NA	NA	-
		10	991	NA	NA	NA	NA	NA	NA	NA	NA	-
		0-1	<20.0	NA	NA	NA	NA	NA	NA	NA	NA	-
		2	1,810	NA	NA	NA	NA	NA	NA	NA	NA	-
Background Trench - 2	1/8/2013	4	3,650	NA	NA	NA	NA	NA	NA	NA	NA	-
Ü	, ,	6	1,650	NA	NA	NA	NA	NA	NA	NA	NA	-
		8	1,340	NA	NA	NA	NA	NA	NA	NA	NA	-
		10	1,330	NA	NA	NA	NA	NA	NA	NA	NA	-
		0-1	1340	NA	NA	NA	NA	NA	NA	NA	NA	NA
		1-2	5040	NA	NA	NA	NA	NA	NA	NA	NA	NA
		2-3	2160	NA	NA	NA	NA	NA	NA	NA	NA	NA
		3-4	752	NA	NA	NA	NA	NA	NA	NA	NA	NA
		4-5	544	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/17/2024	5-6	1330	NA	NA	NA	NA	NA	NA	NA	NA	NA
		6-7	1810	NA	NA	NA	NA	NA	NA	NA	NA	NA
		7-8	1760	NA	NA	NA	NA	NA	NA	NA	NA	NA
		8-9	1570	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
BG-24-1 (nAB1821441824)		9-10	1520	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
(11/10/214410/24)		10-11	1390	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
		11-12 12-13	1390 1470	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
		13-14	1440	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
		14-15	1650	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
		15-16	1630	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
		16-17	1520	NA	NA NA	NA NA	NA NA	NA	NA	NA NA	NA NA	NA NA
		17-18	1390	NA	NA	NA	NA	NA	NA	NA	NA	NA
		18-19	1230	NA	NA	NA	NA	NA	NA	NA	NA	NA
		19-20	688	NA	NA	NA	NA	NA	NA	NA	NA	NA
		0-1	416	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	_
		1-2	704	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	_
		2-3	464	-	-	-	-	-	-	-	-	_
		3-4	304	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		4-5	416	-	-	-	-	-	-	-	-	-
		5-6	400	-	-	-	-	-	-	-	-	-
		6-7	224	-	-	-	-	-	-	-	-	-
		7-8	304	-	-	-	-	-	-	-	-	-
		8-9	288	-	-	-	-	-	-	-	-	-
00.3	4/46/2024	9-10	208	-	-	-	-	-	-	-	-	-
BG-2	4/16/2024	10-11	224	-	-	-	-	-	-	-	-	-
		11-12	96	-	-	-	-	-	-	-	-	-
		12-13	112	-	-	-	-	-	-	-	-	-
		13-14	128	-	-	-	-	-	-	-	-	-
		14-15	224	-	-	-	-	-	-	-	-	-
		15-16	336	-	-	-	-	-	-	-	-	-
		16-17	480	-	-	-	-	-	-	-	-	-
		17-18	400	-	-	-	-	-	-	-	-	-
		18-19	416	-	-	-	-	-	-	-	-	-
		19-20	304	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-

Received by OCD: 7/23/2025 10:08:10 AM

TABLE 2 SUMMARY OF ANALYTICAL RESULTS BACKGROUND SOIL ASSESSMENT- nJMW1309539213 CONOCOPHILLIPS WAY SOUTH STATE COM #001H FWKO TANK BATTERY EDDY COUNTY, NM

						BTEX ²					TPH ³	
		Sample Depth	Chloride ¹						GRO	DRO	EXT DRO	Total TPH
Sample ID	Sample Date			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	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		0-1	704	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		1-2	1,040	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		2-3	1,380	-	-	-	-	-	-	-	-	-
		3-4	1,100	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		4-5	896	-	-	-	-	-	-	-	-	-
		5-6	1,150	-	-	-	-	1	-	-	-	-
		6-7	1,150	-	-	-	-	-	-	-	-	-
		7-8	1,330	-	-	-	-	ı	-	-	-	-
		8-9	1,150	-	-	-	-	1	-	-	-	-
BG-3	4/18/2024	9-10	1,260	-	-	-	-	ı	-	-	-	-
BO-3	4/10/2024	10-11	1,230	-	-	-	-	ı	-	-	-	-
		11-12	1,220	-	-	-	-	-	-	-	-	-
		12-13	1,100	-	-	-	-	ı	-	-	-	-
		13-14	<i>752</i>	-	-	-	-	ı	-	-	-	-
		14-15	704	-	-	-	-	ı	-	-	-	-
		15-16	640	-	-	-	-	1	-	-	-	-
		16-17	608	-	-	-	-	ı	-	-	-	-
		17-18	592	-	-	-	-	-	-	-	-	-
		18-19	640	-	-	-	-	-	-	-	-	-
		19-20	192	-	-	-	-	-	-	-	-	-
		0-1	1,040	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		1-2	1,960	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		2-3	2,400	-	-	-	-	-	-	-	-	-
		3-4	2,600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		4-5	2520	-	-	-	-	-	-	-	-	-
		5-6	2,760	-	-	-	-	-	-	-	-	-
		6-7	2,960	-	-	-	-	-	-	-	-	-
		7-8	1,090	-	-	-	-	-	-	-	-	-
		8-9	1,070	-	-	-	-	-	-	-	-	-
BG-4	4/40/2024	9-10	1,040	-	-	-	-	-	-	-	-	-
BG-4	4/18/2024	10-11	1,040	-	-	-	-	-	-	-	-	-
		11-12	832	-	-	-	-	-	-	-	-	-
		12-13	704	-	-	-	-	-	-	-	-	-
		13-14	832	-	-	-	-	-	-	-	-	-
		14-15	544	-	-	-	-	-	-	-	-	-
		15-16	432	-	-	-	-	-	-	-	-	-
		16-17	512	-	-	-	-	-	-	-	-	-
		17-18	432	-	-	-	-	-	-	-	-	-
		18-19	576	-	-	-	-	-	-	-	-	-
		19-20	560	-	-	-	-	-	-	-	-	-

NOTES:

ft. Feet

gs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

Method SM4500Cl-B
 Method 8021B

2 Method 8021B3 Method 8015M

NA Sample not analyzed for parameter

 $Bold\ and\ italicized\ values\ indicate\ exceedance\ of\ Table\ I\ 19.15.29\ NMAC\ RRALs\ and/or\ Reclamation\ Requirements.$

TABLE 3

SUMMARY OF ANALYTICAL RESULTS

MONITORING WELL SOIL BORING ASSESSMENT - nAB1821441824

CONOCOPHILLIPS

WAY SOUTH STATE COM #001H FWKO TANK BATTERY EDDY COUNTY, NM

						BTEX ¹					TPH ²	
Sample ID	Sample Date	Sample Depth Interval	Chloride ¹	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Total TPH
Sample 15	Sample Date			Delizerie	Linyibenzene	Totache	Total Aylenes	Total BTEX	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	(GRO+DRO+EXT DRO)
		ft. bgs	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		0-1	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24.9	<10.0	24.9
		3-4	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		5-6	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
MW-1 4/16/2024	7-8	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	
		9-10	544	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
	14-15	992	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	
	19-20	496	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-	
		0-1	2,680	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		3-4	2,320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		5-6	2,280	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
MW-2	4/17/2024	7-8	2,200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		9-10	1,870	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		14-15	1,600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		19-20	688	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		0-1	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		3-4	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		5-6	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
MW-3	4/17/2024	7-8	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		9-10	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		14-15	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		19-20	368	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-

NOTES:

ft. Feet

bgs Below ground surface

ppm Parts per million

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

Wt. Weight

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

Bold and italicized values indicate exceedance of Table I 19.15.29 NMAC RRALs and/or Reclamation Requirements.

TABLE 4 GROUNDWATER ELEVATION MEASUREMENTS JUNE 5, 2024 nAB1821441824 CONOCOPHILLIPS WAY SOUTH STATE COM #001H FWKO TANK BATTERY EDDY COUNTY, NM

WELL NO.	TOP OF CASING ELEVATION (FT MSL)	DEPTH TO WATER (FT BMP)	GROUNDWATER ELEVATION (FT MSL)	COMMENTS
MW-1	3010.80	21.92	2988.88	
MW-2	3009.56	21.41	2988.15	
MW-3	3008.99	21.89	2987.10	

Notes:

NM = Not Measured MSL = Mean Sea Level

BMP = Below Measuring Point (Typically the top of PVC Casing)

Elevation data are NAVD88 in U.S. Survey Feet

TABLE 5

SUMMARY OF ANALYTICAL RESULTS

APRIL 2024 GROUNDWATER ASSESSMENT - nAB1821441824

CONOCOPHILLIPS

WAY SOUTH STATE COM #001H FWKO TANK BATTERY EDDY COUNTY, NM

			Wet Chemistry & Inorganic													
Sample ID	Sample Date	Temperature	рН	Alkalinity, Carbonate	Alkalinity, Bicarbonate	Alkalinity, Total	Conductivity @ 25°C	TDS	Calcium	Chloride	Iron	Manganese	Magnesium	Potassium	Sodium	Sulfate
		°C	Std Units	mg/L	mg/L	mg/L	μmhos/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-1	4/17/2024	18.1	6.82	<1.00	390	320	39,500	27,300	1,490	12,400	<1.25	<0.500	1,350	62.4	6,020	3,920
MW-2	4/18/2024	12.6	6.92	<1.00	405	332	22,200	18,100	695	5,000	<1.00	<0.400	1,180	66.5	3,530	6,790
MW-3	4/18/2024	13.3	7.11	<1.00	405	332	22,400	18,000	771	5,100	<1.00	<0.400	1,120	45.2	3,550	5,720

				ВТЕХ			ТРН			
Sample ID	Samula Data	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Total TPH
Sample 1D	ample ID Sample Date		Toluelle	Ethylbenzene	Total Aylelles	TOTAL	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	(GRO+DRO+EXT DRO)
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-1	4/17/2024	<0.0005	<0.0005	<0.0005	<0.001	<0.003	<1.00	<1.00	<1.00	-
MW-2	4/18/2024	<0.0005	<0.0005	<0.0005	<0.001	<0.003	<1.00	<1.00	<1.00	-
MW-3	4/18/2024	<0.0005	<0.0005	<0.0005	<0.001	<0.003	<1.00	<1.00	<1.00	-

NOTES:

mg/L Milligrams per liter
μmhos/cm micromhos per centimeter
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics

TABLE 6 SUMMARY OF ANALYTICAL RESULTS MARCH 2025 PRODUCED WATER SAMPLE - nAB1821441824 CONOCOPHILLIPS WAY SOUTH STATE COM #001H FWKO EDDY COUNTY, NM

		Wet Chemistry & Inorganic						
Sample ID	Sample ID Sample Date		Chloride	Sulfate				
		mg/L	mg/L	mg/L				
PW-1	3/27/2025	191,000	120,000	138				

NOTES:

mg/L Milligrams per liter
TDS Total Dissolved Solids

APPENDIX A C-141 Forms

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NRM2008650013
District RP	11111200000000
Facility ID	
Application ID	_

Release Notification

4WSW9-200109-C-1410

Responsible Party

Responsible	Party			OGRID						
Contact Nam	ne			Contact T	Telephone					
Contact emai	il			Incident #	(assigned by OCI	D)				
Contact mail	ing address			<u> </u>						
			Location	of Release S	Source					
Latitude				Longitude						
			(NAD 83 in dec	cimal degrees to 5 deci	imal places)					
Site Name				Site Type						
Date Release	Discovered			API# (if ap	pplicable)					
Unit Letter	Section	Township	Range	Cou	nty	_				
Surface Owner	r: State	☐ Federal ☐ Tr	ribal Drivata ()	Nama		,				
Surface Owner	i. State	redelal 11	ibai 🔲 Fiivate (1	vame)				
			Nature and	d Volume of	Release					
	Materia	l(s) Released (Select al	ll that annly and attach	calculations or specifi	e justification for th	ne volumes provided below)				
Crude Oil		Volume Release		curculations of specifi		overed (bbls)				
Produced	Water	Volume Release	ed (bbls)		Volume Rec	overed (bbls)				
			tion of dissolved c	hloride in the	Yes 1	No				
	4.	produced water			W. L. D.	1(11)				
Condensa		Volume Release				overed (bbls)				
Natural G		Volume Release				overed (Mcf)				
Other (de	scribe)	Volume/Weight	Released (provide	e units)	Volume/We	ight Recovered (provide units)				
- an I										
Cause of Rele	ease									

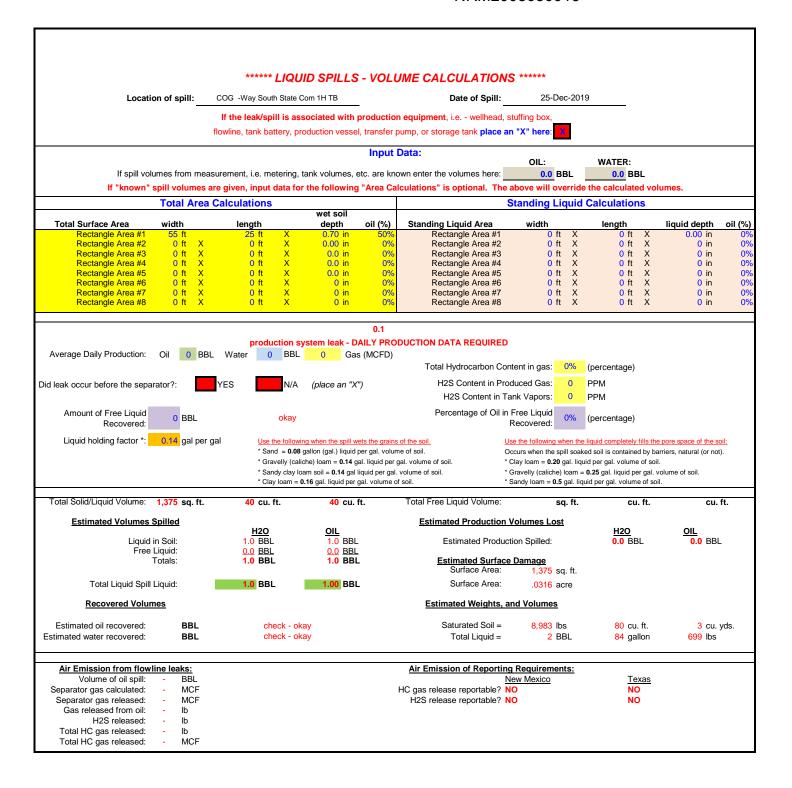
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Page	, ,x	n T	143
1 480	40	vj .	- 10

Incident ID	NRM2008650013
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the	responsible party consider this a major release?	
☐ Yes ☐ No			
If YES, was immediate no	otice given to the OCD? By whom?	To whom? When and by what means (phone, email, etc)?	
	Initia	al Response	
The responsible p	party must undertake the following actions imn	nediately unless they could create a safety hazard that would result in injury	
☐ The source of the rele	ease has been stopped.		
☐ The impacted area ha	s been secured to protect human healt	th and the environment.	
Released materials ha	ive been contained via the use of bern	ns or dikes, absorbent pads, or other containment devices.	
	ecoverable materials have been remov		
If all the actions described	d above have <u>not</u> been undertaken, ex	plain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name		Title:	
Signature:	tan Jopanne	Date:	
email:		Telephone:	
OCD Only			
Received by: Ramona	Marcus	Date: <u>3/26/2020</u>	

NRM2008650013



Received by OCD: 7/23/2025	10:08:10 AM
Form C-141	State of New Mexico
Page 3	Oil Conservation Division

	Page 30 of 245
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?		
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: 7/23/2025 10:08:10 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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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: MTS	Date:	
email:	Telephone:	
OCD Only		
Received by:	Date:	

Received by OCD: 7/23/2025 10:08:10 AM Form C-141 State of New Mexico Oil Conservation Division Page 5

	Page 32 (of 24
t ID		
•		

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be 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	nfirmed as part of any request for deferral of remediation.		
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility		
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human health	n, 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			
Received by: Shelly Wells	Date: <u>8/23/2023</u>		
☐ Approved ☐ Approved with Attached Conditions of	Approval		
Signature:	Date:		

APPENDIX B Regulatory Correspondence

From: OCDOnline@state.nm.us

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

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 255702

Date: Friday, February 16, 2024 11:39:41 AM

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#) nRM2008650013, with the following conditions:

• Remediation plan approved. Submit a report via the OCD permitting portal by 6/21/2024.

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, Ashley Maxwell Projects Environmental Specialist - A 505-635-5000 Ashley.Maxwell@emnrd.nm.gov

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

To: Billings, Bradford, EMNRD: Harimon, Jocelyn, EMNRD Ike.Tavarez@conocophillips.com; Jester, Ste

Subject: [EXTERNAL] FW: Regarding application Id. 244344 Incident # NRM2008650013 WAY SOUTH STATE COM #001H

Date: Wednesday, December 21, 2022 3:04:29 PM

Attachments: image002.png image003.png

image005.png image005.png image006.png

Background Chloride 2013-2020 Soil Assessment WAY SOUTH STATE COM #001H.xlsx

Importance:

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

Per our Teams meeting earlier this afternoon, the figure below shows the planned location (red Circle) for an on-site temporary MW to take GW samples. We will install it as close as is safely practicable near BH-1(2).

Based on the results obtained from this temp MW, additional wells may be installed at the pink circle locations to obtain background GW data and GW potentiometric elevations.

Also attached are the soil data obtained from samples at BH-1 and BH-1(2), as well as background chloride soil concentrations from previous investigations in this immediate area. The background soil locations are also labeled on the figure below.

With your concurrence, we will move forward to obtain an NMOSE permit and then install this MW.

Let Ike and me know if you have any questions, Steve



Proposed MW Locations:

Red Circle - proposed temp MW near BH-1 (2)

Pink Circles - Future MW if needed

Steve Jester | Principal Consultant Cell 713-806-8871 Steve.Jester@tetratech.com

TETRA TECH | Complex World, Clear Solutions™ 1500 City West, #1000 | Houston, TX 77042 http://www.tetratech.com/en/oil-and-gas

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From: Harimon, Jocelyn, EMNRD < <u>Jocelyn.Harimon@emnrd.nm.gov</u>>

Sent: Friday, December 16, 2022 12:10 PM

To: Esparza, Brittany <<u>Brittany.Esparza@conocophillips.com</u>>
Cc: Billings, Bradford, EMNRD <<u>Bradford.Billings@emnrd.nm.gov</u>>

Subject: [EXTERNAL] Regarding application Id. 244344 Incident # NRM2008650013 WAY SOUTH STATE COM #001H

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern,

Regarding application Id. 244344 Incident # NRM2008650013 WAY SOUTH STATE COM #001H.

After reviewing the Addendum to Work Plan for the COG Way South State 001H (NRM2008650013) the OCD respectfully requests a meeting to discuss the specific placement of the upgradient and downgradient monitor wells as well as any possible requests for variance or deferral for this release. Bradford Billings and I have availability next Wednesday 12/21/2022 to meet and discuss.

Jocelyn Harimon

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http://www.emnrd.nm.gov



From: Knight, Tami C.

To: <u>Jester, Steve</u>; <u>Llull, Christian</u>

Cc: McMillan, Michael A.; Crosby, Faith; SLO Surface ECO
Subject: SLO APPROVAL-Way South State Com #001H APPROVED

Date: Friday, October 27, 2023 8:28:58 AM

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

image002.jpg image003.jpg image004.jpg

You don't often get email from tknight@slo.state.nm.us. Learn why this is important

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Steve

Documentation of the continued site delineation/assessment for the Way South State Com #001H, NMOCD Incident # NRM2008650013 was received from your office on August 23, 2023. The NMSLO Environmental Compliance Office (ECO) has reviewed the plan, and based on the information provided in the document received from your office, ECO has approved the continued site assessment/delineation. Please submit the revised remediation plan with the site assessment results to eco@slo.state.nm.us.

Thank you

PLEASE SUBMIT WORKPLANS AND REPORTS TO ECO@SLO.STATE.NM.US

Tami Knight, CHMM

......

Environmental Specialist

SRD-Environmental

Compliance Office (ECO)

505.670.1638

New Mexico State Land Office

1300 W. Broadway Avenue, Suite A

Bloomfield, NM 87413

tknight@slo.state.nm.us

nmstatelands.org

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From

To: Billings, Bradford, EMNRD: Harimon, Jocelyn, EMNRD Ike.Tavarez@conocophillips.com; Jester, Ste

Subject: [EXTERNAL] FW: Regarding application Id. 244344 Incident # NRM2008650013 WAY SOUTH STATE COM #001H

Date: Wednesday, December 21, 2022 3:04:29 PM

Attachments: image002.png image003.png

image005.png image005.png image006.png

Background Chloride 2013-2020 Soil Assessment WAY SOUTH STATE COM #001H.xlsx

Importance:

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

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With your concurrence, we will move forward to obtain an NMOSE permit and then install this MW.

Let Ike and me know if you have any questions, Steve



Proposed MW Locations:

Red Circle - proposed temp MW near BH-1 (2)

Pink Circles - Future MW if needed

Steve Jester | Principal Consultant Cell 713-806-8871 Steve.Jester@tetratech.com

TETRA TECH | Complex World, Clear Solutions™ 1500 City West, #1000 | Houston, TX 77042 http://www.tetratech.com/en/oil-and-gas

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From: Harimon, Jocelyn, EMNRD < <u>Jocelyn.Harimon@emnrd.nm.gov</u>>

Sent: Friday, December 16, 2022 12:10 PM

To: Esparza, Brittany <<u>Brittany.Esparza@conocophillips.com</u>>
Cc: Billings, Bradford, EMNRD <<u>Bradford.Billings@emnrd.nm.gov</u>>

Subject: [EXTERNAL] Regarding application Id. 244344 Incident # NRM2008650013 WAY SOUTH STATE COM #001H

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To whom it may concern,

Regarding application Id. 244344 Incident # NRM2008650013 WAY SOUTH STATE COM #001H.

After reviewing the Addendum to Work Plan for the COG Way South State 001H (NRM2008650013) the OCD respectfully requests a meeting to discuss the specific placement of the upgradient and downgradient monitor wells as well as any possible requests for variance or deferral for this release. Bradford Billings and I have availability next Wednesday 12/21/2022 to meet and discuss.

Jocelyn Harimon

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http://www.emnrd.nm.gov



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**

CONDITIONS

Action 169446

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	169446
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	12/21/2022



RE: [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 403669

From Maxwell, Ashley, EMNRD < Ashley. Maxwell@emnrd.nm.gov>

Date Thu 2/27/2025 11:54 AM

To Abbott, Sam <Sam.Abbott@tetratech.com>

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Thanks for the information. Please include that information in your report when you resubmit it.

Ashley Maxwell • Environmental Specialist

Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.635.5000 | Ashley.Maxwell@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

<u>Effective 12/1/2024</u>: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ under "2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS".

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

Sent: Thursday, February 27, 2025 9:54 AM

To: Maxwell, Ashley, EMNRD < Ashley. Maxwell@emnrd.nm.gov>

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

403669

Thank you, Ashley!

I was not a part of the project at that point, but from review of the project files and speaking with my client, it appears that these locations were agreed upon in a meeting with the NMOCD in December 2022. The number of wells (3) was determined as it is the minimum number required to establish a gradient. One well was located immediately adjacent to the release to assess for impacts, and the other two were located based on their direction and proximity to the draw in accordance with guidance from Mr. Brad Billings in particular during this meeting. The follow-up email correspondence is attached here for reference.

Thank you, Sam

Samantha Abbott, PG | Project Manager

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From: Maxwell, Ashley, EMNRD < Maxwell@emnrd.nm.gov>

Sent: Thursday, February 27, 2025 10:04 AM **To:** Abbott, Sam < <u>Sam.Abbott@tetratech.com</u>>

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

403669

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Yes, let me do a 60-day extension of April 28, 2025. I can't recall off the top of my head, if there are only three wells that where drilled, but can you provide in your report why you selected the number wells and location of the wells in your report? Our group has recently started reviewing groundwater projects and these are questions that have come up during the review of those projects.

Ashley Maxwell • Environmental Specialist

Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

<u>Effective 12/1/2024</u>: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ under "2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS".

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

Sent: Thursday, February 27, 2025 8:59 AM

To: Maxwell, Ashley, EMNRD < Ashley. Maxwell@emnrd.nm.gov >

Subject: Re: [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 403669

Hi Ashley,

I am working on getting this produced water sample for you, but I realized that we have missed the deadline of February 15, 2025. Would it be possible to get an extension to get this sample collected and revised report submitted?

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: Maxwell, Ashley, EMNRD < Ashley.Maxwell@emnrd.nm.gov>

Sent: Wednesday, February 5, 2025 10:23 AM
To: Abbott, Sam <<u>Sam.Abbott@tetratech.com</u>>
Cc: Llull, Christian <<u>Christian.Llull@tetratech.com</u>>

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

403669

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Sam,

I've spoken with my supervisor, Cory Smith, regarding a path forward. Please collect a produced water sample for the site and include the results with the report you previously submitted. Submit that report via the OCD permitting portal. The report will be submitted as a **Remediation Work Plan**.

Let me know if you have any additional questions.

Ashley Maxwell • Environmental Specialist

Environmental Bureau Projects Group **EMNRD** - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.635.5000 | Ashley.Maxwell@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

Effective 12/1/2024: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ under "2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS".

The Digital C-141 guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocdannouncements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/.

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

Sent: Friday, January 31, 2025 11:28 AM

To: Maxwell, Ashley, EMNRD < Ashley. Maxwell@emnrd.nm.gov>

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

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

403669

Hi Ashley,

I looked into this and, unfortunately, there is no analytical data available for the produced water at the time of the release. Furthermore, after taking another look, I found conflicting information between the online incident details and the initial C-141 that was submitted (both attached for reference). The initial C-141 document states that the produced water released had a concentration of dissolved chloride that was >10,000 mg/l. A pertinent detail that remains consistent, however, is that the produced water released totaled 6 barrels, of which 5 were recovered and only 1 bbl lost.

Apologies for the confusion. Please let me know if you have any further questions.

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: Maxwell, Ashley, EMNRD < Ashley. Maxwell@emnrd.nm.gov>

Sent: Monday, January 27, 2025 8:48 AM

To: Abbott, Sam <Sam.Abbott@tetratech.com> Cc: Llull, Christian < Christian.Llull@tetratech.com>

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

403669

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Good Morning Sam and Christian,

I have the report pulled up now. Do you know if there was ever a sample collected of the produced water from the site? In the report is states that it was reported as having less than 10,000 mg/L TDS. I would also be curious what the actual chloride level is.

Ashley Maxwell • Environmental Specialist

Environmental Bureau Projects Group **EMNRD** - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.635.5000 | Ashley.Maxwell@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

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The Digital C-141 guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocdannouncements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/.

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

Sent: Friday, January 24, 2025 10:41 AM

To: Maxwell, Ashley, EMNRD < Ashley, Maxwell@emnrd.nm.gov>

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

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

403669

Hi Ashley,

Happy Friday! I wanted to check in with you again on the status of this review.

Thanks,

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: Maxwell, Ashley, EMNRD < Maxwell@emnrd.nm.gov>

Sent: Tuesday, December 17, 2024 2:41 PM **To:** Abbott, Sam < <u>Sam.Abbott@tetratech.com</u>>

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

403669

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Sam,

I am going to review the previously submitted report. Based on what I find, we will either pull the report back from the rejection status and approve it, or leave it rejected and I will email you with additional comments regarding a path forward.

Ashley Maxwell ● Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.635.5000 | <u>Ashley.Maxwell@emnrd.nm.gov</u>

http://www.emnrd.state.nm.us/OCD/

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From: Abbott, Sam <<u>Sam.Abbott@tetratech.com</u>> Sent: Tuesday, December 17, 2024 9:13 AM

To: Maxwell, Ashley, EMNRD < Ashley. Maxwell@emnrd.nm.gov >

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

403669

I appreciate you!

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: Maxwell, Ashley, EMNRD < Ashley. Maxwell@emnrd.nm.gov>

Sent: Tuesday, December 17, 2024 10:12 AM **To:** Abbott, Sam <Sam.Abbott@tetratech.com>

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

403669

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Let me grant you an extension, because this is on me. The new date will be February 15, 2025.

Please include this correspondence in all future reports.

Ashley Maxwell • Environmental Specialist

Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | <u>Ashley.Maxwell@emnrd.nm.gov</u>
http://www.emnrd.state.nm.us/OCD/

<u>Effective 12/1/2024</u>: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ under "2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS".

From: Abbott, Sam <Sam.Abbott@tetratech.com> Sent: Tuesday, December 17, 2024 9:09 AM

To: Maxwell, Ashley, EMNRD < Ashley.Maxwell@emnrd.nm.gov>

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

403669

Thank you, Ashley. Can I request an extension, as I see we have passed our December 13th deadline?

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: Maxwell, Ashley, EMNRD < Ashley.Maxwell@emnrd.nm.gov >

Sent: Tuesday, December 17, 2024 8:21 AM To: Abbott, Sam <Sam.Abbott@tetratech.com>

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

403669

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Hi Sam,

I apologize again. I have been out of the office since I the last email. I promise, I will get you a response today. Thank you for your patience.

Ashley Maxwell • Environmental Specialist

Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.635.5000 | Ashley.Maxwell@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

Effective 12/1/2024: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ under "2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS".

The Digital C-141 guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-<u>announcements-and-notifications/</u> or https://www.emnrd.nm.gov/ocd/ocd-forms/.

From: Abbott, Sam < Sam. Abbott@tetratech.com > Sent: Wednesday, December 11, 2024 10:03 AM

To: Maxwell, Ashley, EMNRD < Ashley.Maxwell@emnrd.nm.gov>

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

403669

Good morning Ashley,

I wanted to check in with you about this report. Are there any updates regarding our discussion before Thanksgiving?

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: Abbott, Sam <Sam.Abbott@tetratech.com>

Sent: Tuesday, November 19, 2024 9:05 AM

To: Maxwell, Ashley, EMNRD < Ashley. Maxwell@emnrd.nm.gov>

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

403669

Yes, that works for me. I'll send you a Teams calendar meeting.

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: Maxwell, Ashley, EMNRD < Ashley.Maxwell@emnrd.nm.gov>

Sent: Monday, November 18, 2024 3:43 PM **To:** Abbott, Sam <Sam.Abbott@tetratech.com>

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

403669

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Do you have 12:00 mountain time available for tomorrow?

Ashley Maxwell • Environmental Specialist

Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | <u>Ashley.Maxwell@emnrd.nm.gov</u>
http://www.emnrd.state.nm.us/OCD/

<u>Effective 12/1/2024</u>: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ under "2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS".

From: Abbott, Sam <<u>Sam.Abbott@tetratech.com</u>>
Sent: Monday, November 18, 2024 2:41 PM

To: Maxwell, Ashley, EMNRD < Ashley.Maxwell@emnrd.nm.gov>

Subject: [EXTERNAL] RE: The Oil Conservation Division (OCD) has rejected the application, Application ID: 403669

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Ashley,

This one is a bit of a special case, and we weren't sure how to handle the OCD permitting submittal. Would you have some time tomorrow to discuss?

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: Friday, November 15, 2024 3:53 PM

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

Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 403669

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

The OCD has rejected the submitted Application for administrative approval of a release notification and corrective action (C-141), for incident ID (n#) nRM2008650013, for the following reasons:

- C141 denied. The submitted report is titled as a closure report but submitted as a site/characterization Remediation Plan. Please resubmit the report as a closure request.
- Submit a closure request report via the OCD permitting portal by December 13, 2024.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 403669.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you, Ashley Maxwell Projects Environmental Specialist - A 505-635-5000 Ashley.Maxwell@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

APPENDIX BSite Characterization



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 smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	x	Y	Мар	Distance		Depth Water	
<u>C 04466 POD1</u>		CUB	ED	SW	SW	NE	29	26S	28E	584327.2	3542357.4		1279	96	33	63

Average Depth to Water: 33 feet

Minimum Depth: 33 feet

Maximum Depth: 33 feet

Record Count: 1

UTM Filters (in meters):

Easting: 583149.26 **Northing:** 3542855.74

Radius: 002400

* UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	х	Υ	Мар
NA	C 04466 POD1	SW	SW	NE	29	26S	28E	584327.2	3542357.4	

* UTM location was derived from PLSS - see Help

Driller License:	1456	Driller Company:	WHITE DRILLING COMPANY		
Driller Name:	JOHN W WH	ITE			
Drill Start Date:	2020-09-01	Drill Finish Date:	2020-09-02	Plug Date:	2020-10-16
Log File Date:	2020-11-12	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	0
Casing Size:		Depth Well:	96	Depth Water:	33

Water Bearing Stratifications:

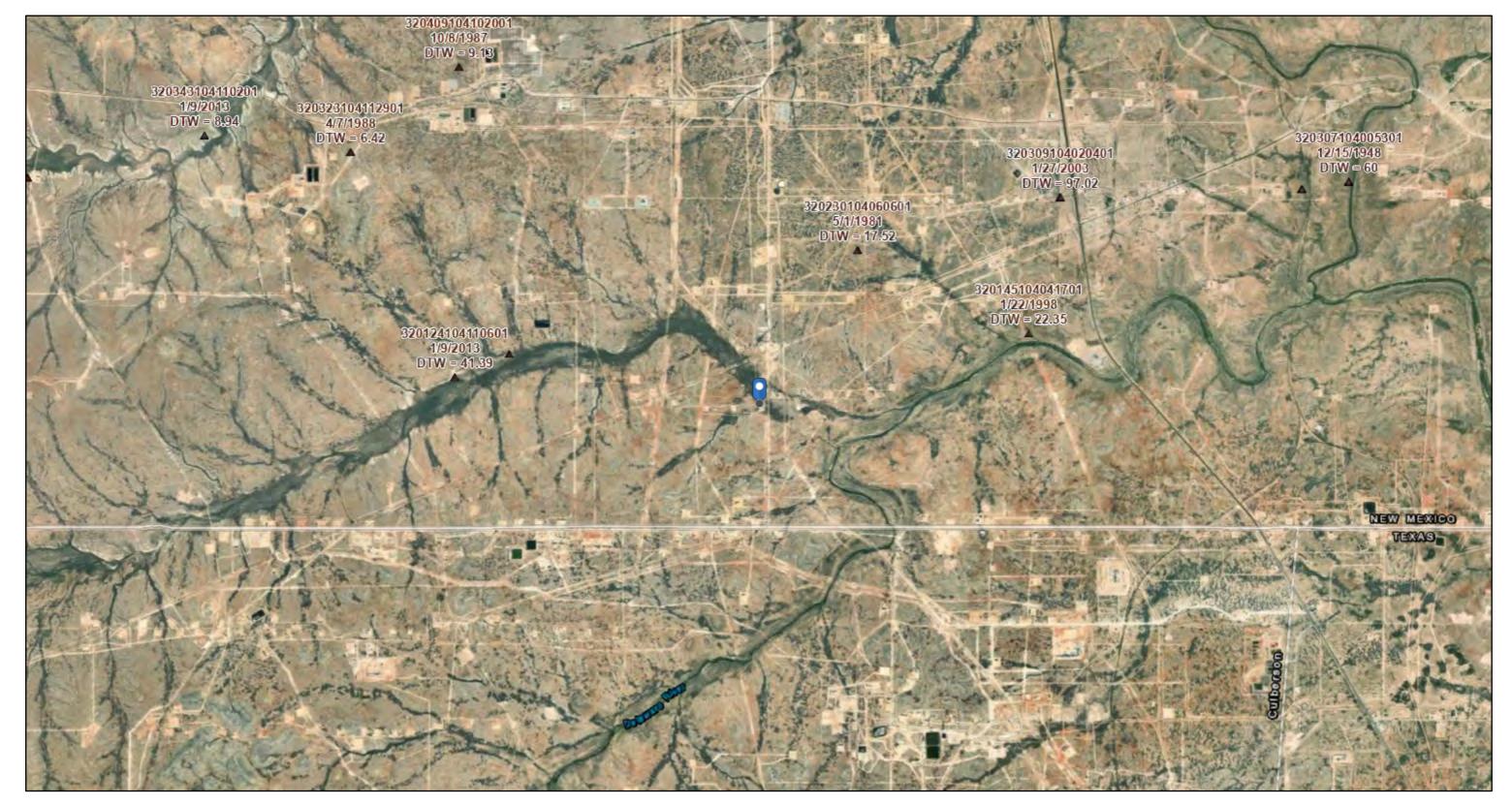
Тор	Bottom	Description
33	35	Sandstone/Gravel/Conglomerate
35	37	Other/Unknown
37	42	Other/Unknown
42	54	Sandstone/Gravel/Conglomerate
54	65	Other/Unknown
65	67	Sandstone/Gravel/Conglomerate
67	74	Sandstone/Gravel/Conglomerate

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7/25/24 9:28 AM MST Point of Diversion Summary

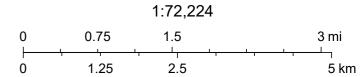
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NM OCD - USGS Groundwater Wells



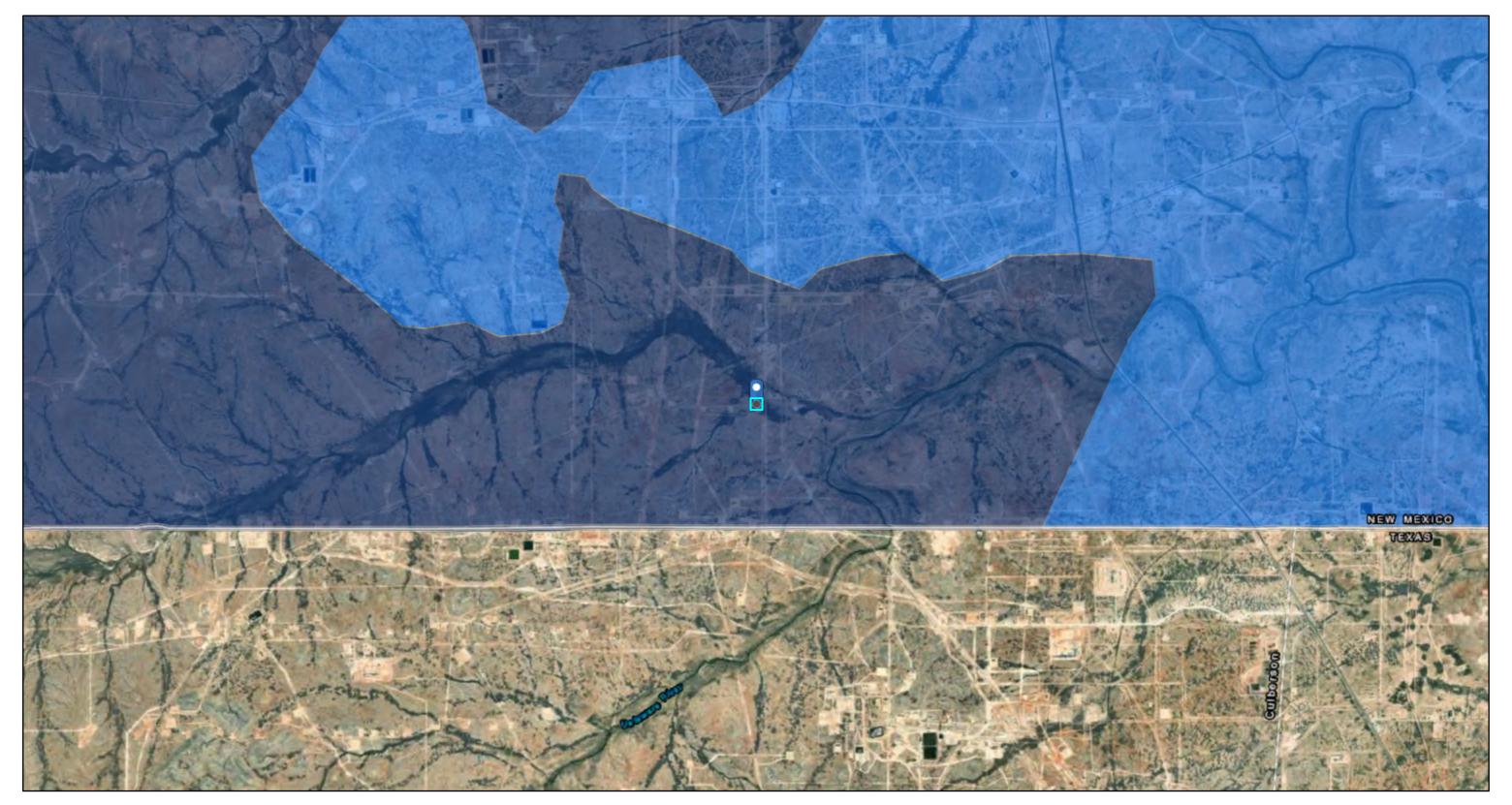
7/25/2024, 10:16:13 AM

USGS Historical GW Wells



Esri, HERE, Garmin, Earthstar Geographics, USGS

NM OCD - Karst Map



7/25/2024, 10:12:03 AM Karst Occurrence Potential

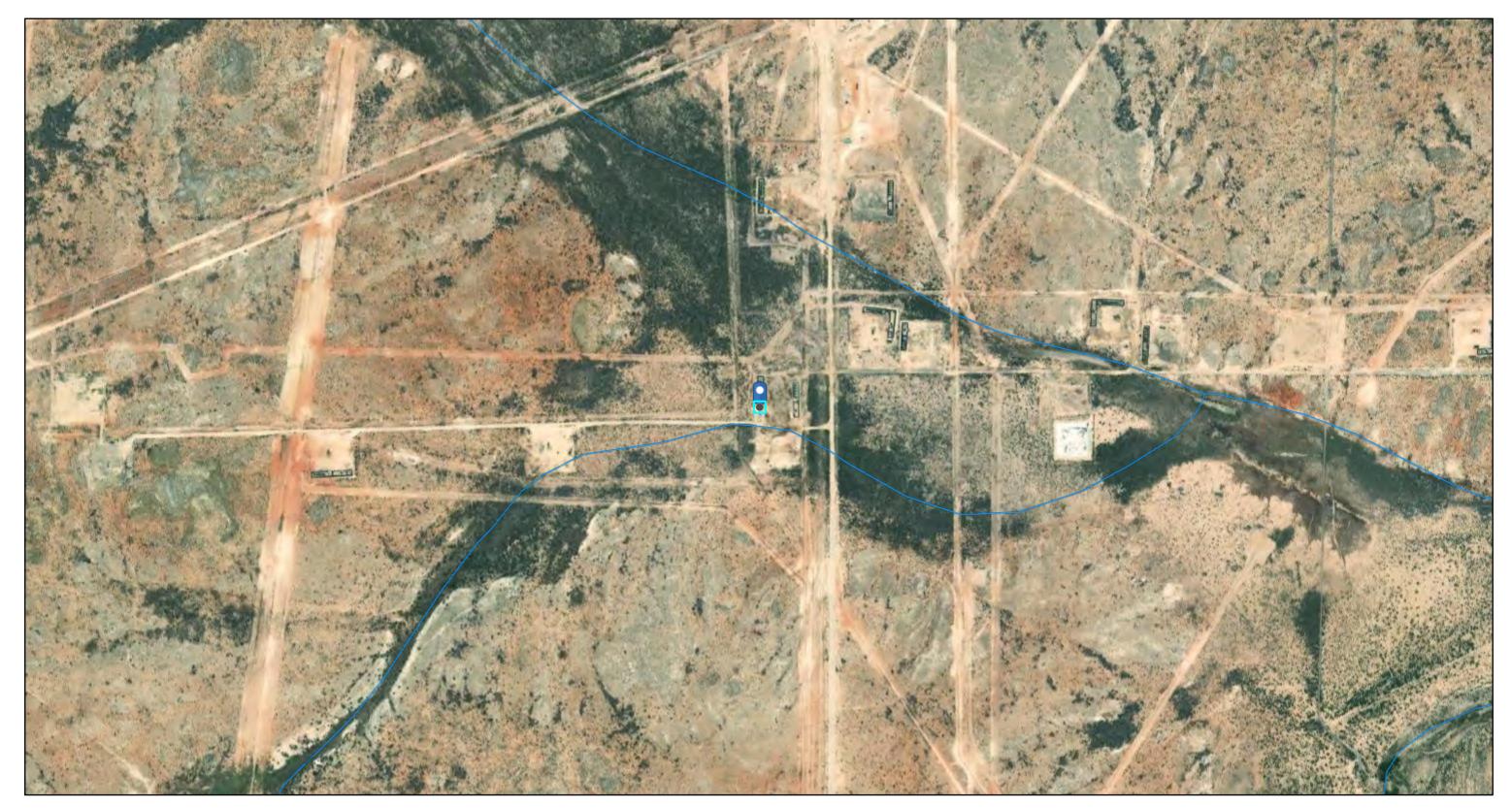
High

Medium

1:72,224 1.5 0.75 3 mi 2.5 1.25

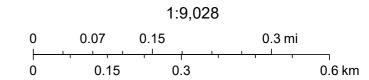
BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, Earthstar Geographics

NM OCD - Waterbodies Map



7/25/2024, 10:06:04 AM

OSE Streams



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

National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT 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 Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL 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

> 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

Unmapped

an authoritative property location.

The pin displayed on the map is an approximate point selected by the user and does not represent

MAP PANELS

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/25/2024 at 11:31 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

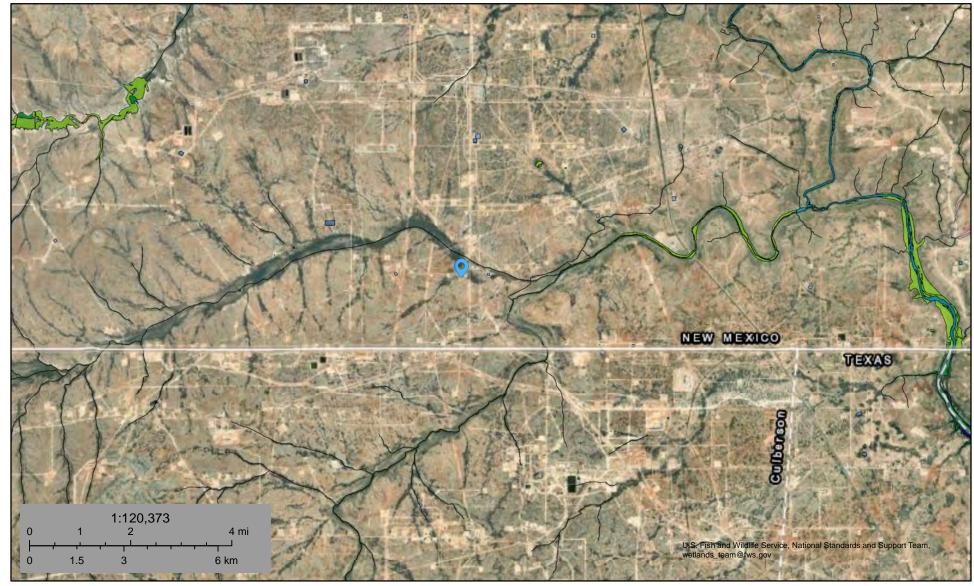
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



2,000



National Wetlands Inventory Map



July 25, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

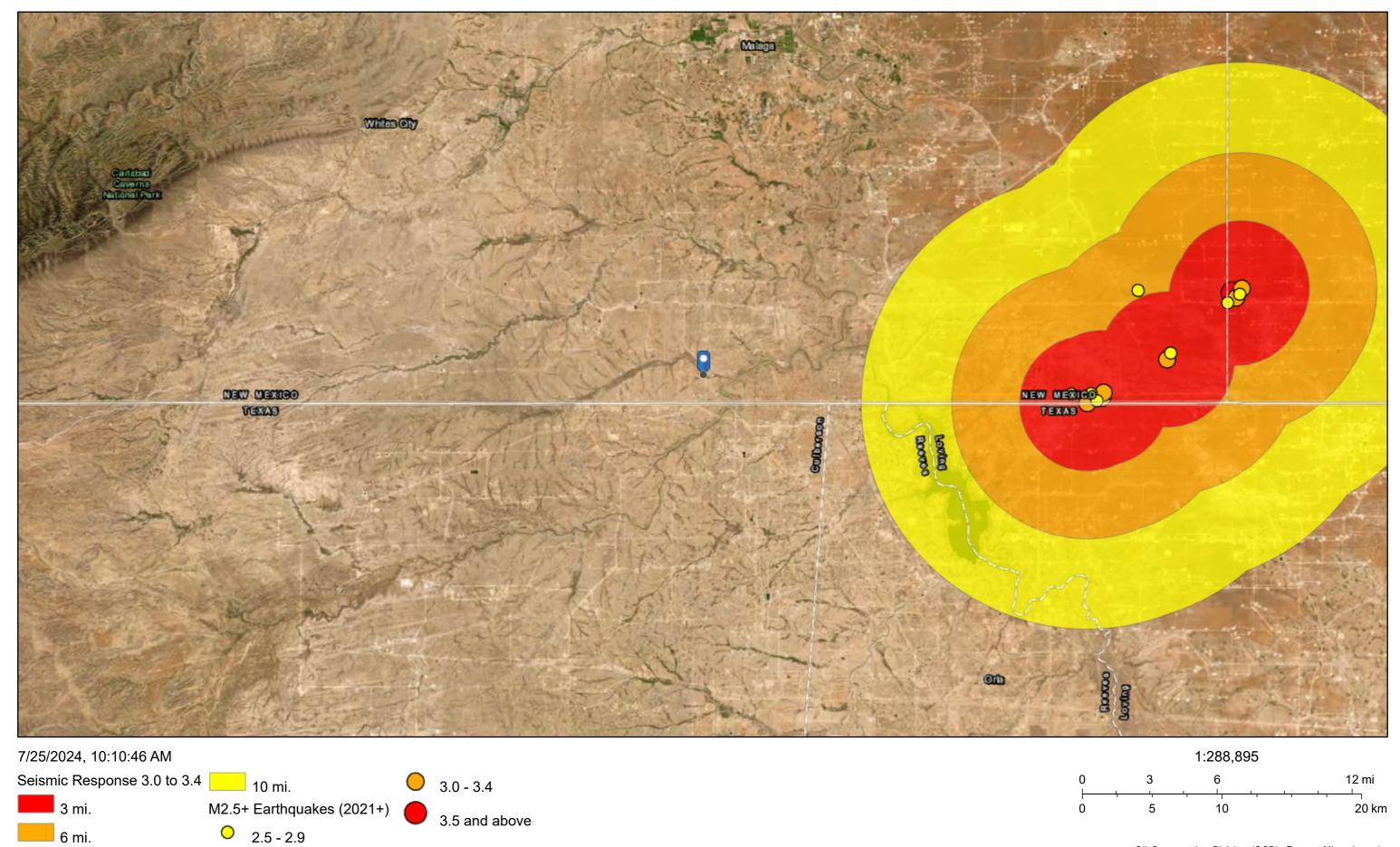
Lake

Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

NM OCD - Induced Seismicity Map



Active Mines in New Mexico

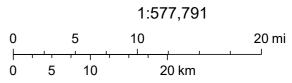


7/25/2024, 10:22:17 AM Registered Mines

Aggregate, Stone etc. 🗴

Aggregate, Stone etc. Aggregate, Potash

Aggregate, Stone etc. Aglt



Earthstar Geographics

NM OCD - Leasing Restrictions Map



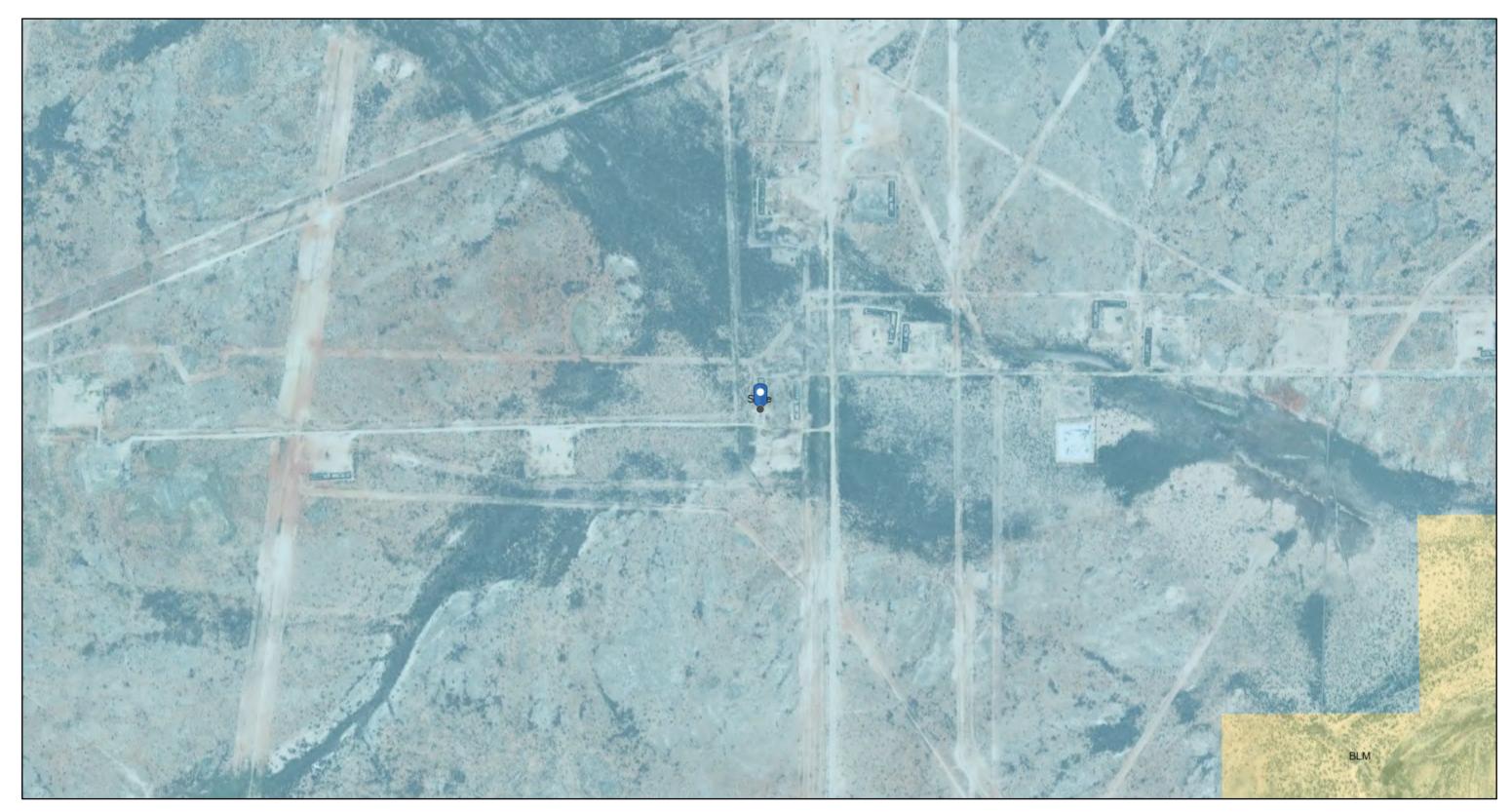
7/25/2024, 10:14:36 AM

Oil and Gas Leasing Restrictions

1:18,056 0 0.17 0.35 0.7 mi 0 0.3 0.6 1.2 km

Esri, HERE, Garmin, iPC, Maxar

NM OCD - Land Ownership Map

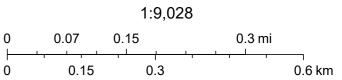


7/25/2024, 10:09:05 AM

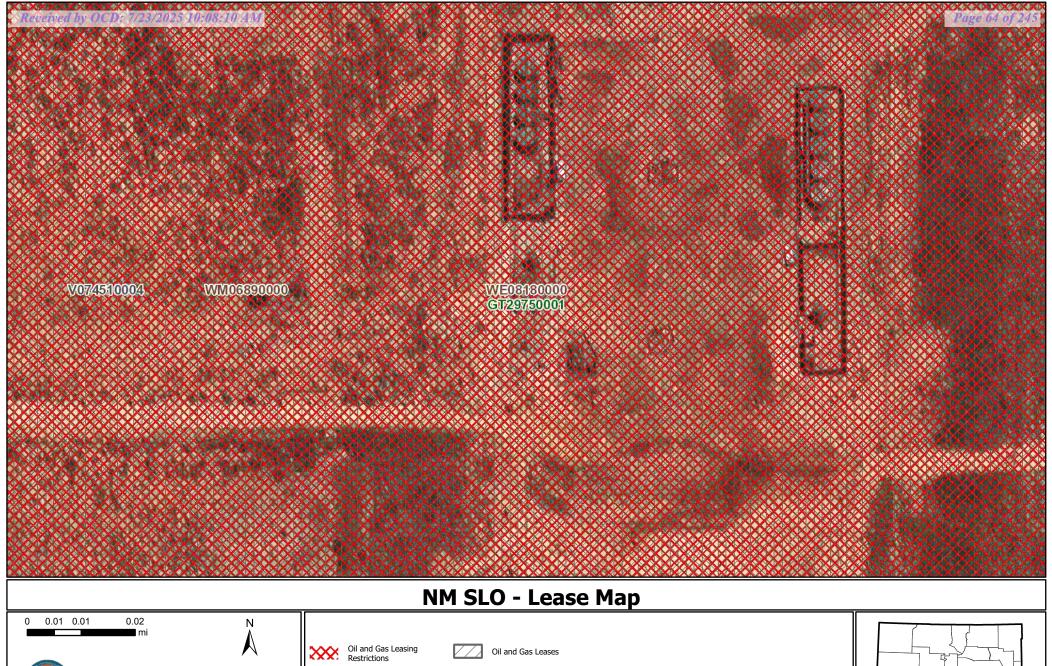
Land Ownership

BLM

S



U.S. BLM, Esri, HERE, Garmin, iPC, Maxar



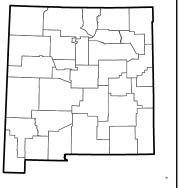


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APPENDIX C Boring Logs and Well Construction Diagrams

Project Name: Way South State Com #001H Tank Battery Borehole Location: GPS Coordinates: 32.01872131*, -104.11941508* Surface Elevation: 3007.9* Borehole Number: MW-1 Borehole Inameter (in.): 8* Date Started: 4/16/2024 Date Finished: 4/16/2024 WATER LEVEL OBSERVATIONS While Drilling 2 25 24 Hours After Completion of Drilling 2 20.7 Remarks: MATERIAL DESCRIPTION WELL DIAGRAM Hundred Started: 4/16/2024 Date Finished: 4/16/2024 WATER LEVEL OBSERVATIONS While Drilling 2 25 24 Hours After Completion of Drilling 2 20.7 Remarks: MATERIAL DESCRIPTION Well DIAGRAM Hundred Started: 4/16/2024 Date Finished: 4/16/2024 WATER LEVEL OBSERVATIONS While Drilling 2 25 24 Hours After Completion of Drilling 2 20.7 Remarks: MATERIAL DESCRIPTION Well DIAGRAM Hundred Started: 4/16/2024 Date Finished: 4/16/2024 WHILE DIAGRAM Hundred Started: 4/16/2024 Date Finished: 4/16/2024 WATER LEVEL OBSERVATIONS While Drilling 2 25 24 Hours After Completion of Drilling 2 20.7 Remarks: MATERIAL DESCRIPTION SC. CLAYEY SAND: Light brown, dry, fine- to coarse-grained, with caliche fragments, pad material. -CL SANDY CLAY: Medium brown, medium stiff, dry, with gypsum. -SC. CLAYEY SAND: Light brown, partially weakly to partially weakly to partially moderately cemented, dry, fine-grained, with trace gypsum. -SC. CLAYEY SAND: Light brown, partially weakly to partially moderately cemented, slightly moist, fine-grained, with trace gypsum. -SC. CLAYEY SAND: Light brown, weakly cemented. School Sand Sand Sand Sand Sand Sand Sand Sand	212C-MD-02839	TE TETRA	ТЕСН	LOG OF BORING MW-1	Page 1 of 1
Borehole Number: MW-1 Borehole Borehole	Project Name: V	/ay South State Con	m #001H Tank Batter	у	
Dameter (in.): S Date Started: 47 16 20 24 Date Printing 16 20 24	Borehole Location:	GPS Coordinates: 32.0	01872131°, -104.11941508°	Surface Elevation: 3007.9'	
While Drilling \$\frac{1}{2}\$ 25 24 Hours After Completion of Drilling \$\frac{1}{2}\$ 20.7 While Drilling \$\frac{1}{2}\$ 25 24 Hours After Completion of Drilling \$\frac{1}{2}\$ 20.7 While Drilling \$\frac{1}{2}\$ 25 24 Hours After Completion of Drilling \$\frac{1}{2}\$ 20.7 While Drilling \$\frac{1}{2}\$ 25 24 Hours After Completion of Drilling \$\frac{1}{2}\$ 20.7 While Drilling \$\frac{1}{2}\$ 25 24 Hours After Completion of Drilling \$\frac{1}{2}\$ 20.7 While Drilling \$\frac{1}{2}\$ 25 24 Hours After Completion of Drilling \$\frac{1}{2}\$ 20.7 While Drilling \$\frac{1}{2}\$ 25 24 Hours After Completion of Drilling \$\frac{1}{2}\$ 20.7 While Drilling \$\frac{1}{2}\$ 25 24 Hours After Completion of Drilling \$\frac{1}{2}\$ 20.7 While Drilling \$\frac{1}{2}\$ 25 24 Hours After Completion of Drilling \$\frac{1}{2}\$ 20.7 While Drilling \$\frac{1}{2}\$ 24 Hours After Completion of Drilling \$\frac{1}{2}\$ 20.7 While Drilling \$\frac{1}{2}\$ 24 Hours After Completion of Drilling \$\frac{1}{2}\$ 20.7 While Drilling \$\frac{1}{2}\$ 24 Hours After Completion of Drilling \$\frac{1}{2}\$ 20.7 While Drilling \$\frac{1}{2}\$ 24 Hours After Completion of Drilling \$\frac{1}{2}\$ 25 24 Hours After Completion of Drilling \$\frac{1}{2}\$ 25 24 Hours After Completion of Drilling \$\frac{1}{2}\$ 20.7 While Drilling \$\frac{1}{2}\$ 24 Hours After Completion of Drilling \$\frac{1}{2}\$ 24 Hours After Completion of Drilling \$\frac{1}{2}\$ 25 24 Hours After Completion of Drilling \$\frac{1}{2}\$ 25 26 Hours After Completion of Drilling \$\frac{1}{2}\$ 26 26 26 26 26 26 26 26 26 26 26 26 26	Borehole Number:	MW-1			: 4/16/2024
## 0 5 Exstik PID 5 2 4 LL PI 2 5 6 ULL PI 2 5 0 ULL PI 2 5 UL	SS (Mada) NO	ION (ppm) RY (%) ENT (%)	ă ă	WATER LEVEL OBSERVATIONS While Drilling	<u>¥</u> 20.7
- FILL: Light brown, dry, fine- to coarse-grained, with caliche fragments, pad material. - CL- SANDY CLAY: Medium brown, medium stiff, dry, with gypsum. - SC- CLAYEY SAND: Light brown to pale brown, partially weakly to partially moderately cemented, dry, fine-grained, with trace gypsum, grading to SM. - SC- CLAYEY SAND: Light brown, partially moderately cemented, dry, fine-grained, with trace gypsum, grading to SM. - SC- CLAYEY SAND: Light brown, partially weakly to partially moderately cemented, slightly moist, fine-grained, with trace gypsum. - SM- SAND: Pale brown, weakly cemented, slightly moist, fine-grained, with trace gypsum. - SM- SAND: Pale brown, weakly cemented, slightly moist to moist, very fine-grained, with trace gypsum.	I Ⅲ I Œ I ₹ ├──	─ ─── ∢ │ 일 │	α ⊢	MATERIAL DESCRIPTION	TOC
	1180 - 1180 - 1460 - 1460 - 1630 - 15 2540 - 20 1930			with caliche fragments, pad material. -CL- SANDY CLAY: Medium brown, medium stiff, dry, with gypsum. -SC- CLAYEY SAND: Light brown to pale brown, partially weakly to partially moderately cemented, dry, fine-grained, with trace gypsum, grading to SM. -SC- CLAYEY SAND: Light brown, partially weakly to partially moderately cemented, slightly moist, fine-grained, with trace gypsum. -SM- SAND: Pale brown, weakly cemented, slightly moist to moist, very fine-grained, with trace gypsum.	Bentonite Slurry Grout 4" Schedule 40 PVC Casing Bentonite Chip Seal 20/40 Silica Sand Filter Pack 4" Schedule 40 PVC Slotted Screen
30 ((CL- CLAY: Light brown, stiff, moist to wet.					

212C-MD-02839	TE	ETRA T	ECH				LOG OF BORING MW-2				Page 1 of 1
Project Name: W	ay South Sta	ite Con	n #001	Н Та	nk Ba	attery	/				
Borehole Location:	GPS Coordinat	tes: 32.01	1966120°	, -104.	119083	331°	Surface Elevation:	: 3006.83'			
Borehole Number:	MW-2				B	oreho	ole 8" ter (in.):	Date Started: 4/17/2024	Date Fi	nished	d: 4/17/2024
(mdd) NOI	ION (ppm)	ENT (%)	£	DEX			_	WATER LEVEL OBSER ✓ 18.75 24 Hours After Compl			<u>¥</u> 18.7
DEPTH (ft) OPERATION TYPES SAMPLE CHLORIDE CONCENTRATION (ppm)	→	MOISTURE CONTENT (%)	DRY DENSITY (pd)	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATE	ERIAL DESCRIPTION		DЕРТН (ft)	WELL DIAGRAM — TOC Elev: 3009.56'
						<u> </u>	-CL- CLAY: D	oark brown, stiff, dry, with			
10						<u> </u>	-CL- SANDY gypsumSC- CLAYEN weakly to mod with some gyp -SC- CLAYEN moderately ce -SM- SAND: I weakly cemen trace gypsum. -SM- SAND: I cemented, slig some gypsum	CLAY: Dark brown, stiff, dry, with a common control of the control of the common control of the control of the common control of the control of the common control of the common control of the common	ned, ally, with	2 3 - - - - - - - - - - - - - - - - - -	Bentonite Slurry Grout 4" Schedule 40 PVC Casing Bentonite Chip Seal 20/40 Silica Sand Filter Pack 4" Schedule 40 PVC Slotted Screen (0.010")
30 ((- \(-		White, weakly cemented, moist stalline to very fine-grained.	to	30	
Sampler Split Sport Sport Shell Sampler Sampler Sport Shell Samr Samr Samr Samr Samr	by Vane S	nia	Opera Types	S: Holl Aug	tinuous ht Auge	4	Bott Auger Note	tom of borehole at 30.0 feet.			
Logger: Colton Bicke	retaff		Drillin	ıa Faı	uipme	ntAir R	otary Drille	er: Scarborough Drilling			

212C-MD-02839	TŁ	TETRA	TECH				LOG OF BORING MW-3	Page 1 of 1
Project Name:	Way South S	State Co	om #00	01H Ta	ınk Ba	attery	,	
Borehole Locatio	n: GPS Coord	dinates: 32	.018468	94°, -104	.118396	64°	Surface Elevation: 3006.37'	
Borehole Numbe	: MW-3				B	oreho	ole ter (in.): 8" Date Started: 4/17/2024 Date Finished:	: 4/17/2024
ω ₀	ON (ppm)	RY (%) ENT (%)		DEX			WATER LEVEL OBSERVATIONS While Drilling	<u>¥</u> 19.4
DEPTH (ft) OPERATION TYPES SAMPLE XT CHLORIDE		SAMPLE RECOVERY (%) MOISTURE CONTENT (%)	\sim \sim	H LIQUID LIMIT PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION (£) HL	WELL DIAGRAM — TOC Elev:
	ouk PID		L	-L PI		1/ . 1/ . 1/	-CL- CLAY: Brown to dark brown, stiff, dry, with very fine-grained sand.	3008.99'
							-CL- SANDY CLAY: Dark brown, very stiff, dry. 3	
5							-SC- CLAYEY SAND: Dark brown, loose, fine-grained, dry.	Bentonite Slurry Grout 4" Schedule 40 PVC Casing
							-SC- CLAYEY SAND: Light brown to brown, medium dense, dry, with trace gypsum.	Bentonite Chip Seal
10							-SM- SAND: Light brown to pale brown, partially weakly cemented, dry, with some clayey sand.	
15							-SC- CLAYEY SAND: Brown, moderately cemented, slightly moist, fine-grained, with some gypsum.	20/40 Silica Sand Filter Pack 4" Schedule
20							-SM- SAND: Light brown, moderately cemented, slightly moist, fine-grained, with some gypsum.	· · 40 F V C
25							-SC- CLAYEY SAND: Light brown to brown, moderately cemented, moist to wet, fine-grained, with some gypsum.	Slotted Screen (0.010")
30 (-GC- GRAVEL: Light brown to pale brown, medium dense, moist to wet, fine-grained, with some clay.	<u>::: = ::: </u>
							Bottom of borehole at 30.0 feet.	
SI BI SI SI GM G	velby Valumple Ca	cetate Liner ane Shear alifornia est Pit		Aug	ntinuous ht Auge d	↓ L	Auger Notes: Air Rotary Survey date: 4/30/2024 Direct Push Drive Casing	
Loggor: Caltan Dia	. "		Dri	lling Fa	uinmo	ntAir R	ptary Drillor: Seembara with Drilling	

212C-MD-02839	TE TETRA	TECH	LOG OF BORING BG-2	Page 1 of 1
Project Name: V	/ay South State Co	om #001H Tank Batt	tery	
Borehole Locations	32.018357°, -104.119741°	•	Surface Elevation: 3015 ft	
Borehole Number:	BG-2	Bor Dia	rehole ameter (in.): 8 Date Started: 4/16/2024 Date Finished	: 4/16/2024
E E E E E E E E E E E E E E E E E E E	ppm) ERY (%)	EX	WATER LEVEL OBSERVATIONS While Drilling □ DRY The properties of Drilling The properties of Drill	RY_ft
DEPTH (ft) OPERATION TYPE SAMPLE CHLORIDE FIELD SCREENING (DDM)	-	DRY DENSITY (pcf) LIQUID LIMIT PLASTICITY INDEX MINUS NO. 200 (%)	GRAPHIC LOG WATERIAL DESCRIPTION (f)	REMARKS
5 - - - - - - - - - - - - - - - - - - -			-SP- SAND: Light brown, loose, dry. -CL- CLAY: Dark brown, medium stiff, dry. -SC- CLAYEY SAND: Light brown, loose, dry. 6 -SC- CLAYEY SAND: Medium brown, dense, dry. 12 -SC- CLAYEY SAND: Brown, dense, dry, with some gypsum.	
Sampler Spling Spc She	Vane Shear Discrete Sample Took Dist	Operation	Bottom of borehole at 20.0 feet. Description Property Prope	ed from
Logger: Colton B	ckerstaff	Drilling Equipment	I: Air Rotary Driller: Scarborough Drilling	

WATER LEVEL OBSERVATIONS	ed: 4/18/2024 DRY_ft										
Borehole Number: BG-3 Borehole Diameter (in.): 8 Date Started: 4/18/2024 Date Finish WATER LEVEL OBSERVATIONS											
Diameter (in.): O Date Started: 4/10/2024 Date Finish WATER LEVEL OBSERVATIONS											
WATER LEVEL OBSERVATIONS	DRY_ft										
PETH (ft) OPERATION TYPE SAMPLE SAMPLE SCREENING (ppm) SAMPLE RECOVERY (%) NO STICITY INDEX MINUS NO. 200 (%) GRAPHIC LOG GRAPHIC LOG GRAPHIC LOG GRAPHIC LOG GRAPHIC LOG GRAPHIC LOG Mylie Drilling AMALE RECOVERY (%) MOISTURE CONTENT (%) MOISTURE CONTENT (%) MALE RECOVERY (%) MOISTURE CONTENT MALE RECOVERY (%) MALE RE	REMARKS										
-SP- SAND: Light brown, loose, dry.											
-CL- SANDY CLAY: Dark brown, medium stiff, dry. -SC- CLAYEY SAND: Light brown, loose to medium dense, fine grained, dry, with some gypsum. -SC- CLAYEY SAND: Brown, medium dense, fine grained, slightly moist, with some gypsum. -SM- SAND: Light brown to pale brown, loose, fine grained, moist.											
fine grained, moist.											

212C-MD-02839 TETRA TECH											LOG OF BORING BG-4	Page of 1
Project Na	ame	: Way	South	Sta	te Co	om #	001	Н Та	nk B	attery	у	
Borehole	Loca	ation32.0	20159°, -	104.1	19349	°					Surface Elevation: 3016 ft	
Borehole	Nun	nber: BG	-4						E	Boreho Diame	Dole to Date Started: 4/18/2024 Date Finished: 4/18	/2024
		LLD ppm)	(mdc	ERY (%)	ENT (%)	if)		IDEX		June	WATER LEVEL OBSERVATIONS While Drilling □ DRY ft Upon Completion of Drilling □ DRY ft Remarks:	
DEPTH (ft) OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Н СІДОІВ СІМІТ	고 PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION (#) HE REI	MARKS
											-CL- SILTY CLAY: Dark brown, stiff, dry.	
											-CL- SANDY CLAY: Dark brown, stiff, dry.	
5											-SC- CLAYEY SAND: Light brown, occassionally dark brown, loose, very fine grained, dry.	
10											-SC- CLAYEY SAND: Light brown to brown, medium dense to dense, dry, with some gypsum.	
											-SM- SILTY SAND: Light brown to pale brown, loose, occassionally grading to clayey sand.	
15											18	
20											-SM- SILTY SAND: Light brown, loose, very fine grained, slightly moist, with trace gypsum.	
1/ /5	173			1		I	I	I	I	t. F. F.	Bottom of borehole at 20.0 feet.	
Sampler		√ Split					Dnera	ition				
Sampler Types:		Split Spoon Shelby Bulk Sample Grab Sample	V S			r C	pera ypes	Muc Rota	tinuou nt Aug sh	s er	Hand Auger Air Rotary Direct Push Core Barrel Notes: Surface elevation is an approximate value obtained from Google Earth.	1
Logger:	Co	olton Bicker	staff			[Drillin	g Equ	ıipme	nt: Air	ir Rotary Driller: Scarborough Drilling	

212C-MD-02839 TETRA TECH				LOG OF BORING BG-24-1 Page 1 of 1
Project Name: Way South State Com #001H Tank Battery				
Borehole Location32.018888°, -104.120315° Surface Elevation: 3017 ft				
Borehole Number: BG-24-1 Borehole Diameter (in.): 8 Date Started: 4/17/2024 Date Finished: 4/17/2024				
9	рт) :RY (%) ENT (%)	f) DEX		WATER LEVEL OBSERVATIONS While Drilling
DEPTH (ft) OPERATION TYPE SAMPLE CHLORIDE FIELD SCREENING (AMD)	─	DRY DENSITY (pdf) F LIQUID LIMIT PLASTICITY INDEX	MINUS NO. 200 (%)	MATERIAL DESCRIPTION (a) HE MATERIAL DESCRIPTION (b) HE MARKS
10 15 				-SP- SAND: Light to medium brown, loose, dry, fine-grained, with some claySC- CLAYEY SAND: Light to medium brown, partially weakly cemented, dry, fine grained, with trace gypsumSP- SAND: Light to very light brown, partially weakly cemented, dry, fine to very fine grained with trace clay, grading to clayey sand. -SC- CLAYEY SAND: Medium brown, medium dense, dry, with some gypsum. -SC- CLAYEY SAND: Brown, dense, dry, with some gypsum. -SM- SAND: Brown, dense, slightly moist, with moderate silt and clay content Moderately moist @ 19'
Bottom of borehole at 20.0 feet. Sampler Spoon Acetate Liner Types: Hand Auger Notes: Surface elevation is an approximate value obtained from Google Earth. Sample Sample Sample Test Pit Sample Test Pit Sample Test Pit Te				

APPENDIX D Cultural Survey and Permitting Documentation

NMCRIS Activity No. 1 5 2 7 5 6 Registration				
Lead Agency: New M	lexico State Land Office			
Performing Agency:	SWCA Environmental Consultants			
Activity ID:	80223			
Performing Agency F	Report No: 23-245			
Report Recipient (You	ur Client): Tetra Tech			
Activity Types:	☐ Research Design ✓ Archae	eological Survey/Inventory		
	☐ Architectural Survey/Inventory	☐ Test Excavation ☐ Monitoring		
	☐ Collections/Non-Field Study	☐ Compliance Decision		
	☐ Literature Review Overview	☐ Excavation ☐ Ethnographic Study		
	☐ Resource/Property Visit	☐ Historic Structures Report		
	☐ Other:			
Total Survey Acreage:	18.15			
Total Tribal Acreage:	0.00			
Total Resources Visited:	0			

NMCRIS Activity No. 152756

Associate/Register Resources

Prefix	Number	Field Site/Other Number	In GIS	Resource Type	Collections Made?	Revisit
			>			

NMCRIS Activ	vity No. 1527	75 6 Report Details
Lead Agency		
	Lead Agency:	New Mexico State Land Office
Lead Agency Re	eport No.	
	Report Number	:
Title of Report		
	Title of Report:	A Cultural Resources Survey of the Way South State Com Monitor Well Project in Eddy County, New Mexico
	Authors:	Paisley DeFreese
Type of Report		
	Publication Typ	e: Report, Monograph, or Book Negative
Description of U	Indertaking (what	does the project entail?)
	res Co pa	tra Tech contracted SWCA Environmental Consultants (SWCA) to conduct an intensive cultural sources pedestrian survey in support of the Way South State Com Monitor Well project in Eddy unty, New Mexico. The proposed project consists of constructing and maintaining a new well and d and is approximately 23.26 kilometers (14.45 miles) south of Malaga, New Mexico on lands inaged by the New Mexico State Land Office (SLO). The SLO will serve as the lead agency.
	acı	tra Tech is proposing to build a monitor well. The proposed area of potential effects (APE) is a 10-re (4.04 hectare) block. The project is completely on SLO land. Tetra Tech sent a site monitor to evey with SWCA as part of their standard safety protocol.
Dates of Investi	gation	
	From: <u>04/17/20</u> 2	23 To : 04/17/2023
Report Date		
	Report Date: 04	4/26/2023
Performing Age	ncy/Consultant	
	Name:	SWCA Environmental Consultants

NMCRIS Activity No. 1	52756				
Principal	Investigator:	Christine Kendrick			
Field Sup	ervisor:	Thea Stehlik-Barry			
Field Pers	sonnel Names:	N/A			
Historian/	Other:	N/A			
		Report Details			
Performing Agency Report	Number				
Report Nu	Report Number: 23-245				
Client/Customer (project pro	oponent)				
Name:	Tetra Tech				
	Steve Jester				
	1500 City West, # Houston, TX 770				
Phone:	(713) 806-8871				
Client/Customer Project Nu	ımber				

Project Number: 80223

NMCRIS Activity No. 152756

Ownership & Location

Land Ownership Status (Must be indicated on Project Map)

Land Ownership:

Land Owner/Manager	Protocol	Acres Surveyed	Acres in APE
NM SLO		18.15	10

Total Survey Acreage: 18.15
Total Tribal Acreage: 0.00

Record S	Search((es)
----------	---------	------

Date of HPD/ARMS File Review: 30-March-2023

Date of Other Agency File Review: 30-March-2023

Survey Data

Source Graphics: NAD 83

✓ USGS 7.5' (1:24,000) topo map

☐ Other Topo Map Scale:

✓ GPS Unit

☐ Aerial Photos

☐ Other Source Graphic(s):

The following tables (b,c,& e) are calculated by the NMCRIS Map Service

USGS 7.5' Topographic Map(s)

Map Name	USGS Quad Code
Red Bluff	32104-A1

County(ies)

out ity (100)			
County	FIPS		
Eddy			

Legal Description

Unplatted	Township (N/S)	Range (E/W)	Section
	T26S	R29E	29
	T26S	R29E	30

Projected Legal Description

Nearest City or Town: Malaga

NMCRIS Activity No. 152756

GIS

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NMCRIS Activity No. 152756

Methodology

Survey Field Methods		
Intensity:	100% coverage	_
Configuration	Block Survey Units	☐ Linear Survey Units (I x y)
	Other	Survey Units
Scope:	Non-Selective	_
Coverage Me	thod: ✓ Systematic Pede	estrian Coverage Other Method:
Survey Interv	al (m): <u>15</u> Crew	Size: <u>1</u>
Fieldwork Date	tes: From: <u>04/17/2023</u>	To: <u>04/17/2023</u>
Survey Perso	n Hours: 1.25	Recording Person Hours: 0
Additional Na	rrative: Colton Bickerstaff	, a Tetra Tech monitor, surveyed with SWCA.

Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.)

The project area falls within the Chihuahuan Basins and Playas (24a) ecoregion. This ecoregion includes alluvial fans, internally drained basins, and river valleys mostly below 4,500 feet in elevation (Griffith et al. 2006). The elevation of the project area is 1,061.6 m (3,483 feet) above mean sea level. This ecoregion is composed of desert grasses and shrub land in erosional settings. This project is within the shrub land setting. Typical vegetation includes creosote bush, tarbush, yuccas, sandsage, viscid acacia, tasajillo, lechuguilla, mesquite, and ceniza. (Griffith et al. 2006). Wildlife in the area includes mule deer, prairie dog, gopher, fox, coyote, skunk, black-tailed jackrabbit, desert cottontail, scaled quail, burrowing owl, mourning dove, wrens, various hawks, bull snake, prairie rattlesnake, plain hognose snake, western hooknose snake and numerous lizards (Biota Information System of New Mexico 2023; Brown 1994). Important animal species prehistorically include deer, jackrabbit, and cottontail.

Environmental Setting:

Geology underlying the project area comprises Holocene to middle Pleistocene eolian deposits ([Qe] [U.S. Geological Survey 2023]). Two soils are present within the project area: Gypsum land-Cottonwood complex, 0 to 3 percent slopes (0.28 percent survey area) are well drained, with a low runoff class; Cottonwood-Reeves loams, overflow, 0 to 3 percent slopes (99.72 percent of survey area) and are well drained, with a moderate runoff class (Natural Resources Conservation Service 2023).

Weather data for the survey area was compiled using the Carlsbad Caverns, New Mexico (291480), climate station data (period of record February 1, 1930, to June 6, 2016). Rainfall in the survey area can occur year-round but is most abundant from May through October. During that time period, rainfall totals 30.1 cm (11.9 inches), with an average of 5.0 cm (1.98 inches) per month for those months; September has the heaviest average precipitation. Snowfall is heaviest during December at 5.6 cm (2.2 inches) and can fall between October and March. Temperatures are coldest in December and January at 0.8

NMCRIS Activity No. 152756

degree Celsius (33.6 degrees Fahrenheit) and warmest in June at 32.8 degrees Celsius (91.1 degrees Fahrenheit) (Western Regional Climate Center 2023).

Biota Information System of New Mexico

2023 Database Query for Eddy County. Available at: http://www.bison-m.org/. Accessed April 2023.

Griffith, G. E., J. M. Omernik, M. M. McGraw, G. Z. Jacobi, C. M. Canavan, T. S. Schrader, D. Mercer, R. Hill, and B. C. Moran

2006 Ecoregions of New Mexico. Color poster with map, descriptive text, summary tables, and photographs. Map scale 1:1,100,000. U.S. Geological Survey, Reston, Virginia.

Natural Resources Conservation Service

2023 Web Soil Survey of Eddy County, New Mexico. Available at: http://websoilsurvey.nrcs.usda.gov/app/. Accessed April 2023.

Western Regional Climate Center

2023 Climate Summary for Carlsbad Caverns Climate Station (291480). Available at: https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?nm1480. Accessed April 2023

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Methodology

Percent Ground Visibility					
Ground Visibility:	76-99 %				
Condition of Survey Area:	Area was heavily disturbed with a well pad, access roads, flowlines, cleared pad areas, fence lines, and cattle traffic.				
Attachments (check all appropriate boxes)					
 ✓ USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn (required) ✓ Copy of NMCRIS Map Check (required) 					
☐ LA Site Forms – new site	\square LA Site Forms – new sites (with sketch map & topographic map) if applicable				
☐ LA Site Forms (update) -	☐ LA Site Forms (update) – previously recorded & un0relocated sites (first 2 pages minimum)				
\square List and Description of Is	☐ List and Description of Isolates, if applicable				
☐ List and Description of C	ollections, if applicable				
Other Attachments					
✓ Photographs and Log					
Other attachments De	scribe:				

NMCRIS Activity No. 152756

Cultural Resource Findings

Investigation Results

- Archaeological Sites Discovered and Registered: 0
- Archaeological Sites Discovered and NOT Registered: 0
- Previously Recorded Archaeological Sites Revisited (site update form required): 0
- Previously Recorded Archaeological Sites Not Relocated (site update form required): 0
 - Total Archaeological Sites (visited & recorded): 0
 - Total Isolates Recorded: 0
 - ✓ Non-Selective Isolate Recording
 - HCPI Properties Discovered and Registered: 0
 - HCPI Properties Discovered And NOT Registered: 0
 - Previously Recorded HCPI Properties Revisited: 0
 - Previously Recorded HCPI Properties NOT Relocated: 0
 - Total HCPI Properties (visited & recorded, including acequias): 0
 - If No Cultural Resources Found, Discuss Why: 0

Management Summary

SWCA surveyed a 30.48-m (100-feet) buffer on all sides of the proposed project polygons for a total survey area of 18.15 acres (7.33 hectares). No archaeological sites or historic cultural properties (buildings, structures, or objects) or isolated occurrences were observed. This is likely due to the small survey area in addition to the previous surveys around the project also finding no cultural materials.

SLO cultural resources preservation efforts requires that an archaeological survey be conducted Summary: to current standards for the APE pursuant to and in compliance with New Mexico Administrative Code (NMAC) 4.10.15 to ensure that cultural properties are not inadvertently excavated, harmed, or destroyed by any person. SWCA recommends that the proposed project will have no effect on any cultural resources listed or eligible for listing in the New Mexico State Register of Cultural Properties or the National Register of Historic Places. However, if buried cultural deposits are discovered during project construction, work should cease immediately, and the New Mexico SLO and State Historic Preservation Officer should be contacted

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Attachments

Documents:

Attachment Type	Description	Name	File Type	Size	Upload Date	Upload By
Report/Manuscript	NMCRIS_152756 NIAF	NMCRIS_152756	PDF Document	6,879 KB	21-April-2023	Paisley DeFreese

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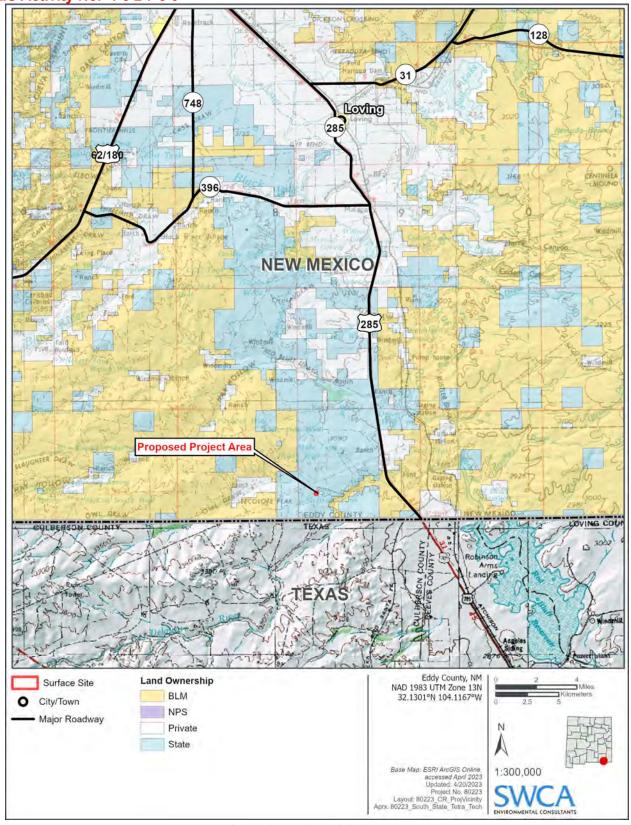


Figure 1. Project vicinity map.

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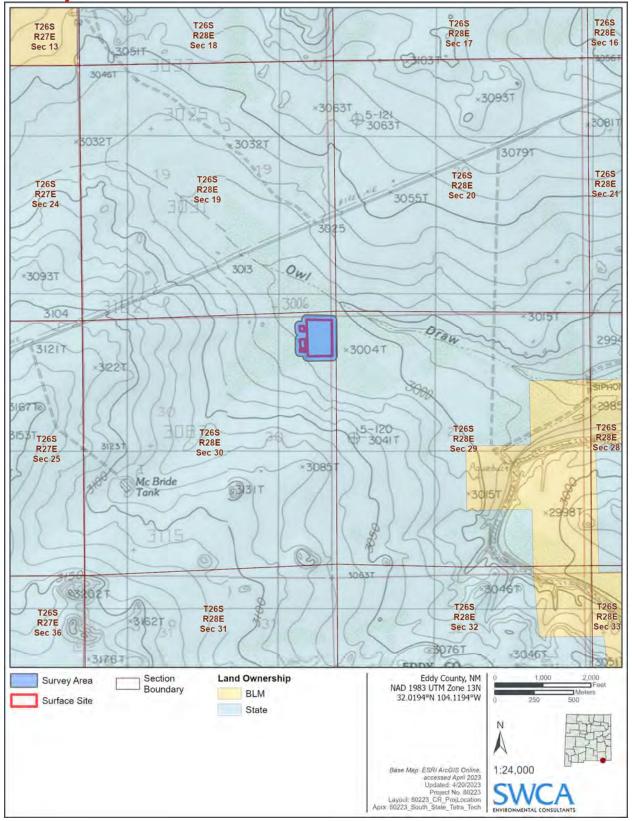


Figure 2. Project location map.

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Figure 3. Project overview, facing northeast (Frame -9754).



Figure 4. Project overview, facing southwest (Frame -9456).

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Figure 5. Project overview, facing southeast (Frame -5308).



Figure 6. Project overview, facing north (Frame -2509).

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Table 1. Previously Known Cultural Resources within 500 m (0.31 mile) of the Project Area

*Redacted

Table 2. Previously Completed Cultural Resource Surveys within 500 m (0.31 mile) of the Project Area

*Redacted

Figure 7. ARMS screenshot with the survey area in blue and sites in yellow.

*Redacted



Stephanie Garcia Richard COMMISSIONER

State of New Mexico Commissioner of Public Lands

COMMISSIONER'S OFFICE Phone (505) 827-5760 Fax (505) 827-5766

Fax (505) 827-5766 www.nmstatelands.org

310 OLD SANTA FE TRAIL P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

September 27, 2023

COG Operating LLC Attn: Ike Tavarez 600 W. Illinois Ave, Midland, TX 79701

Re: N.M. Water Monitoring Easement WM-689

Dear Mr. Tavarez,

Enclosed please find the approved contract for WM-689. Thank you for doing business with the New Mexico State Land Office.

If you require further assistance, please contact me at (505) 476-0378 or dgallegos@slo.state.nm.us.

Sincerely,

David A. Gallegos

Water Bureau Environmental Specialist

Lallegy

encl.

xc: Lease File



NEW MEXICO STATE LAND OFFICE

WATER MONITORING EASEMENT

NO. <u>WM-689</u> New-Issue

THIS AGREEMENT, effective on August 21, 2023 and dated this <u>28</u> day of <u>September</u>, 2023, made and entered into between the State of New Mexico Commissioner of Public Lands, acting trustee pursuant to the Act of June 21, 1910, 36 Stat. 557, ch. 310, § 10, (Commissioner), and <u>COG Operating LLC</u>, whose address is <u>600 W. Illinois Ave., Midland, TX 79701</u>, (Grantee). This Water Monitoring Easement ("Easement") is not effective until signed by the Commissioner.

1. Grant of Easement

For good and valuable consideration, including the covenants herein, the Commissioner grants to Grantee a Water Easement for <u>three</u> (3) well-sites as herein defined, to be located within the following described area in <u>Eddy</u> County ("Easement Land"):

Quarter-Quarte	er -	Section	Township	Range	Number of Easement Acres
NE4NE4		30	<u>26S</u>	<u>28E</u>	<u>40</u>
The more SLO Well- Site Name	nitoring wells per <i>Lat Long in de</i>		er this Easemer es OSE Well		Volume of Use
MW-1	32.018726, -	104.11941 9	TBD		<600 GPY
MW-2	32.019704, -	104.119080	TBD		
MW-3	32.018475, -	104.118415	TBD		

A well-site is one half (0.5) acre with the denominated well in the center. Depending on their proximity, well-sites may overlap. The area of this granted easement is calculated based on 0.5 acres multiplied by the total number of well sites shown above.

2. Purpose and Approved Use

This Easement is for the purpose of allowing Grantee's placement of monitoring well(s) for the benefit of the trust and for the following specific purpose: monitoring ground water pursuant to remediation case number 2RP-4888/NRM2008650013 issued by the NMOCD. This grant of Easement entitles Grantee to the exclusive use of the easement for the permitted purposes, and to install such improvements as are necessary to those purposes for the term of this easement. This Easement does not entitle Grantee to divert water, or to develop or put to beneficial

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use any water rights. The Commissioner may permit other uses on or within this Easement to the extent that they do not impair Grantee's permitted purposes.

3. Term of Easement

A. Term

This Water Easement is for a term of five (5) years, commencing on <u>August 21, 2023</u> ("Anniversary Date"), and expiring <u>August 20, 2028</u>, unless terminated earlier as provided herein.

B. Renewal

Upon Grantee's written request submitted to the Commissioner at least sixty (60) days prior to the expiration of this Easement, the parties may renew this Easement if the Commissioner, in the Commissioner's sole discretion, determines such renewal to be in the best interests of the trust.

C. Reversion to Commissioner

At such time that this Water Easement expires, is not renewed, or is otherwise terminated, or if Grantee has failed to use the Easement Land for the permitted purposes for a period of one (1) year, the Easement Land shall *ipso facto* revert to the Commissioner who may, in the Commissioner's sole discretion, thereafter make this Water Easement, with improvements, if any, available for further use. The Commissioner shall give Grantee notice of this said non-renewal by registered mail and no further notice or action on the Commissioner's part shall be required. Any loss of any kind, arising from the non-renewal of this Easement is acknowledged and accepted by Grantee as a business risk and Grantee's acknowledgement and acceptance shall be considered an inducement by Grantee to the Commissioner to enter into this Water Easement, shall not be considered a "taking" of any rights or property of Grantee, and shall not be the basis of any action at law or in equity to recover damages of any kind.

4. Grantee Standard of Care

Grantee shall act prudently in drilling wells and performing water monitoring. "Prudent" within the context of this provision means that standard of care, operating and action of a reasonable water user acting pursuant to provisions of New Mexico water law and any other applicable laws, rules, and regulations. When Grantee has completed monitoring use of the well, Grantee will plug the well and provide Commissioner written evidence of having done so.

5. Permits and Reporting

A. Permit to Drill and Copies

Prior to drilling, Grantee shall obtain a permit to drill a well with no water right (Permit) for each well included in this Easement from the New Mexico Office of the State Engineer (OSE). The Permit application must name the Commissioner of Public Lands as co-applicant and indicate that the well is to be located on land owned by the New Mexico State Land Office. Grantee shall send the Commissioner a copy of all applications for a Permit or correspondence related to the applications contemporaneously with any OSE filing, and shall send to the Commissioner a copy of any and all OSE response(s), Permits, or other communication(s) regarding Permit within ten (10) days of receipt. Grantee shall comply with all applicable laws pertaining to, and with all rules and regulations and procedures of, any other state agency having proper jurisdiction over the water.

B. Monitoring Reports

Grantee shall provide to the Commissioner copies of all interim and final reports regreated using data collected from the wells permitted under this Easement.

C. Commissioner Participation in Filing

The Commissioner, in the Commissioner's discretion, may assist Grantee in any Hings or proceedings before the OSE. However, the Commissioner may withhold approval of any

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filings with the OSE, may withdraw participation or approval of any joint filing with the OSE, and may contest or challenge any filing (even if the Commissioner was previously a joint applicant or party to the filing), if the Commissioner determines that a filing is not or is no longer in the best interest of the trust. At the written request of the Commissioner, Grantee shall withdraw any filing with the OSE.

6. Documentation

As soon as practicable, Grantee shall furnish to the Commissioner copies of records, reports and plats of its operation, produced during the term of this Easement, including but not limited to water quality tests, well logs, drill cores, meter readings, and any data relating to hydrology and geological formations.

7. Amendment

This Easement shall not be altered, changed, or amended except by a written instrument executed by both the Commissioner and Grantee. An amendment is required to add wells to or remove wells from this Easement, or to establish rights-of-way or install improvements outside of the Easement Land. Each such amendment application shall be accompanied by the filing fee set forth in the Commissioner's current schedule of fees, and an annual rental payment per well, to be calculated and due as described in Paragraph 11.

8. Rights-of-way

Grantee shall have the right, without further consideration, to establish such rights-of-way upon the Easement Land as are reasonably necessary to the Purpose and Approved Use of the Easement, to install or maintain any necessary equipment or facilities on the Easement Land. Grantee shall not establish any rights-of-way or install any improvements outside of the Easement Land without an amendment to this Easement. It is Grantee's sole responsibility to notify and obtain in advance the approval of any surface lessee for any right-of-way. The Commissioner reserves the right to require such rights-of-way to be moved when the development or other use of the surrounding trust lands require this. Rights of way outside the Easement Land will be granted by the Commissioner, in the Commissioner's discretion. No right-of-way, or other access across, or use of any lands other than those expressly granted in this Easement is implied or expressed.

9. Surveys

Grantee shall survey each well site as soon as practicable after drilling, and submit a copy of the survey plat when completed to the Commissioner.

10. Improvements

A. Authorized Improvements

Grantee may make or place such improvements and equipment upon or under the Easement Lands as are reasonably necessary to the purpose of the Easement, subject to the requirements for removal of improvements and equipment set forth in Paragraph C below. No pipelines shall be installed, and no water right shall be developed or used under this Easement. All Grantee improvements such as well housing, piping, casing, and related equipment installed or obtained by Grantee on the granted Easement shall remain Grantee's sole property and liability. All such improvements shall be subject to the lien described in NMSA 1978 § 19-7-34. Grantee shall submit a written request for approval from the Commissioner prior to making any changes or additions to Authorized Improvements on the Easement Land. At the request of the Commissioner, Grantee shall submit updated survey plats showing such changes or additions.

B. Unauthorized Improvements

In the event that improvements not authorized by the Commissioner are placed on or under the Easement Land, at the Commissioner's discretion, such improvements may thereafter

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be deemed forfeited to the Commissioner and for purposes of Sections 19-7-14 and 19-10-28 NMSA 1978, no payments shall be due pursuant to those sections for such remaining improvements, or the Commissioner may order the removal, at Grantee's expense, of such improvements and the restoration of the Easement Land to its condition existing prior to the placement of said improvements.

C. Removal of Improvements or Equipment

Upon the termination, expiration or assignment of Grantee's interest in this Easement, Grantee may remove all such improvements, but only to the extent that such removal will not cause material injury to the Easement Land, and provided that all sums due to the Commissioner have been paid and that such removal is accomplished within sixty (60) days of the date of termination, expiration or assignment; or, Grantee may sell its interest in such physical improvements to a subsequent grantee or assignee. Any such sale or removal shall be subject to the Commissioner's paramount statutory lien. The Commissioner may, in writing, consent to Grantee leaving designated improvements upon the Easement Land, and such improvements shall thereafter be deemed forfeited to the Commissioner, and no payments for such remaining improvements shall be due under Sections 19-7-14 and 19-10-28 NMSA 1978. Any other improvements not removed or sold by Grantee shall continue to be Grantee's sole property and liability, shall be deemed in trespass, and shall give rise to such remedies for trespass and waste as may be available to the Commissioner at law or in equity. The Commissioner may extend the 60-day period upon good cause shown.

11. Payment of Rental

A. Annual Rental

Grantee shall pay annual rental in the amount of \$1,500.00 (\$500.00 per well) to be due on or before the Anniversary Date August 21st of each year. If this Easement is relinquished, cancelled or otherwise terminated prior to the end of the term set forth above, the annual rental shall not be prorated, reduce or refunded for any part of any year during which the Easement is in effect.

B. Payment Submittal

Payment of all sums due hereunder shall be made payable to "Commissioner of Public Lands" and shall include the State Land Office Water Easement number <u>WM-689</u>, and shall be submitted to the Director of Oil Gas Minerals Division, New Mexico State Land Office, 310 Old Santa Fe Trail, P.O. Box 1148, Santa Fe, New Mexico 87504-1148.

12. Receipt of Monies:

A. Receipt of Monies

No receipt of monies, including rental, by the Commissioner from Grantee, or any other person acting for or on Grantee's behalf, after termination or expiration of this Easement shall reinstate, continue, or extend the Term; affect any notice previously given to Grantee; operate as a waiver of the Commissioner's right to enforce payment of any rent or other monies due or thereafter falling due; or, operate as waiver of the right of the Commissioner to recover possession of the Easement Land by legal action.

B. Acceptance of Payment

Grantee understands that the Commissioner's receipt of any monies is governed by the New Mexico State Land Office Rules. Grantee agrees that the Commissioner's negotiation of Grantee's check or other means of payment, and crediting the proceeds of such instrument to a suspense account, does not constitute acceptance of Grantee's payment.

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C. Application of Payments

The Commissioner shall have the right to apply any payments made by Grantee to satisfy Grantee's obligations to the Commissioner in any order at the Commissioner's sole discretion, and without regard to Grantee's instructions as to the application of any such payment or part thereof, whether such instructions are endorsed on Grantee's check or otherwise, unless the Commissioner and Grantee otherwise agree, in writing, before the Commissioner accepts such payment. The Commissioner's acceptance of a check or payment by Grantee or others on Grantee's behalf shall not, in any way, affect Grantee's obligations hereunder nor shall it be deemed an approval of any assignment or subletting of this Water Easement.

13. Signage

Grantee shall post on each well a sign with Grantee's name, Easement number, State Land Office well number, OSE permit number and location by legal description.

14. Site Security and Fencing

Any and all site security of any kind for Grantee, Grantee's agents, employees or invitees, the Easement Land, or any personal property thereon shall be the sole responsibility and obligation of Grantee, and shall be provided by Grantee at Grantee's sole cost and expense. Grantee agrees to provide reasonable security for the Easement Land and all construction areas within the Easement Land consistent with standard industry practices and in conformity with Grantee's duty to prevent waste and trespass. If the Commissioner requires or approves in advance in writing, Grantee will furnish proof to the Commissioner that required or approved fencing is completed and in good repair.

15. Reclamation

Grantee agrees to reclaim by grading, levelling or terracing all areas disturbed by its activities on the Easement Land, and to landscape such areas at its own cost and expense. A Reclamation Plan must be submitted to and approved by Grantor prior to implementation. Grantor will not release Grantee from its responsibility for reclamation and revegetation until all work described in the Reclamation Plan has been completed and Grantor has performed an inspection on the Easement Land. The goal of the Reclamation Plan shall be to achieve native plant cover and diversity levels equal to or exceeding the natural potential levels in undisturbed soils adjacent to the project area. The Reclamation Plan shall include the following:

A. Narrative

The Reclamation Plan shall include a narrative describing all reclamation activities including removal of debris and equipment.

B. Re-Vegetation Requirements

A detailed description of the seed mix (native seed only), seeding rate/acre, method of dispersal, timing of dispersal, follow up monitoring plan, a re-seeding plan if initial efforts are unsuccessful, and a plan for addressing noxious weeds shall all be included in the Reclamation Plan. All seed mixtures submitted for approval shall specify pounds of pure live seed per acre. The seed shall contain no primary or secondary noxious weeds. Commercially sold seed shall be either certified or registered seed. The Noxious Weed component of the Reclamation Plan should include identification of the species of concern and the methods used to eradicate those species from the site. Eradication techniques may include mechanical treatment, chemical treatment, follow-up and monitoring. A Final Report is required on implementation and completion of the Reclamation that includes a brief narrative of the seeding and monitoring efforts and photos of the reclaimed area. Once Grantee has submitted the Final Report and the Grantor has approved the work, Grantor will provide acknowledgment that reclamation requirements have been met.

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16. Compliance with State Land Office Rules and Other Laws

Grantee shall comply with all applicable laws pertaining to, and with all rules and regulations and procedures of, the OSE where the State Engineer has jurisdiction over the monitoring wells. Grantee shall fully comply with all federal, state and local laws, rules, regulations, ordinances and requirements applicable to the Easement Land or to Grantee's operations thereon, including but not limited to all applicable laws governing water; endangered or threatened species; hazardous materials; environmental protection; land use; health and safety; cultural, historic or archeological / paleontological properties; waste; trespass, and the New Mexico Cultural Properties Act, NMSA 1978, 18-6-1 et seq. Such agencies are not to be deemed third party beneficiaries hereunder; however, this clause is enforceable by the Commissioner as herein provided or as otherwise permitted by law. Grantee shall comply with all New Mexico State Land Office Rules and Regulations, 19.2 NMAC, including those that may be hereafter promulgated. Grantee's obligations under this paragraph include but are not limited to compliance with NMSA 1978 Section 19-6-5, requiring a lessee of State Trust Land to protect the Easement Land from waste or trespass. Grantee's compliance with all laws, regulations and policy shall be at its own expense.

17. Closeout and Relinquishment

A. Closeout

Upon closeout of the Easement, Grantee shall submit to the State Land Office a Notification of Plugging to include plans for:

- Well plugging including well diagrams, GPS of Well Locations, Drilling Company to do the plugging, plugging materials, volume of material to be placed, placement method, and date of plugging.
- Improvement removal according to Paragraph 10-C.
- Reclamation and re-seeding as outlined in Paragraph 15.

Relinquishment of the Easement will be contingent upon proper closeout of the Easement site.

B. Relinquishment

Grantee may, with the Commissioner's approval, relinquish this Easement provided that Grantee is in compliance with all terms of this Easement, including the payment of all rentals due, and if all improvements made pursuant to the Easement on, for, or appurtenant to the Easement Land have been approved by the Commissioner and arrangements satisfactory to the Commissioner have been made for either their removal or retention. Grantee may request relinquishment of all or any part of the Easement Land by filing relinquishment forms prescribed by the Commissioner and paying the relinquishment fee in the Commissioner's schedule of fees. Granting the request is at the discretion of the Commissioner.

C. No Release of Liability or Obligations

Grantee shall not, by relinquishment, avoid or be released from any liability for known or unknown waste or damage to the Easement Land, including environmental damage arising from, or in connection with, Grantee's use or occupancy thereof. Likewise, by relinquishment Grantee shall not be relieved of or discharged of obligations accrued by Grantee as of the date of relinquishment, including the obligation to reclaim the surface, revegetate the surface, pay the rentals required under Paragraph 11 and indemnify the Commissioner in accordance with the terms of this Easement.

D. No Refunds for Relinquishment

Upon any relinquishment, Grantee shall not be entitled to the refund of any rental previously paid.

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18. Assignment or Sublease

Grantee shall not assign or sublease any rights granted hereunder, any part thereof, any portion of the Easement Land or any improvements located on the Easement Land without the prior amendment of this Water Easement pursuant to Paragraph 7 to permit such sublease or assignment, payment of the fee provided in the Commissioner's schedule of fees, and completion of required forms indicating the Commissioner's consent. Grantee may assign this Water Easement in whole only. The assignee shall succeed to all of the rights and privileges of Grantee hereunder and shall be held to have assumed all of the duties and obligations of Grantee to the Commissioner (including payments of rentals up to and after the date of the assignment), except that the Commissioner reserves the right to increase the annual rental and percent rental to be payable by the assigned under Paragraph 11. No such assignment or sublease shall attempt to convey any permanent interest in Water Rights. Any sublease or assignment without Water Easement amendment shall be null and void.

19. Collateral Assignment

Grantee shall obtain approval of the Commissioner before making any collateral assignment or mortgage of its interest in this Easement or its improvements, and any such collateral assignment or mortgage shall be subject to the conditions, limitations and requirements set forth in the State Land Office rules. The Commissioner's approval of a collateral assignment or mortgage shall not release Grantee from any of its obligations under this Easement, except as agreed to in writing by the Commissioner. If the Commissioner gives Grantee a notice of default, the Commissioner shall simultaneously provide a copy of the notice to an approved collateral assignee or mortgagee, which shall have the right to cure the default within the time provided, subject to the requirements of State Land Office rules. An approved collateral assignee or mortgagee may succeed to the rights and duties of Grantee, and it may assign the Water Easement in accordance with Paragraph 18, and State Land Office Rules governing assignments.

20. Grantee Breach and Cancellation

The Commissioner may terminate this Water Easement for breach of any term or covenant of this Easement. Any substantial deviation in water quantity or water quality, if reasonably attributable to Grantee, or any change in the purpose of the Easement from that stated herein, shall constitute grounds for the Commissioner, in the Commissioner's sole discretion, to terminate, amend, modify, renegotiate, cancel or otherwise change this Easement; provided, however, that the Commissioner shall mail to Grantee, by certified mail, addressed to the mailing address of Grantee shown in the Commissioner's current records, a thirty (30) day notice of intention to alter or terminate, specifying the reasons for which the notice is given. Proof of mailing, but no proof of receipt of notice, shall be necessary, and thirty (30) days after such mailing this Easement shall terminate *ipso facto* without further notice or proceeding required of the Commissioner; provided, however, there shall be no termination and reversion if Grantee has previously made arrangements satisfactory to the Commissioner to discharge or resolve the breach.

21. Holding Over

Upon termination or expiration of this Easement, any act or conduct of Grantee, including, but not limited to, the unapproved entry upon, occupancy, or use, whether continuous or not, of all or any part of the Easement Land by Grantee, Grantee's agents, or by any unauthorized improvements or other improvements required or ordered to be removed upon termination of expiration shall constitute Holding Over. At the termination or expiration of this Easement, Grantee immediately shall deliver possession to the Commissioner. In the event of Grantee's Holding Over, Grantee shall pay the Commissioner from time to time, upon demand, as remail for

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the period of any hold over, to be due for each month of such hold over, an amount equal to two hundred percent (200%) of the annual rent. Nothing contained herein shall be construed as a grant to Grantee of the right to hold over or otherwise enter the Easement Land for any purpose after the expiration or termination of this Easement without the prior written approval of the Commissioner. At any time that Grantee is holding over, the Commissioner shall, without requirement of further notice or grace period, have any and all rights to evict or otherwise remove Grantee by force or otherwise, with all costs and fees incurred in such action to be due and payable by Grantee. This Section shall survive the termination or expiration of this Easement.

22, Bond

Prior to commencement of operations under this Easement. Grantee shall obtain the Commissioner's approval of and file a bond with the Commissioner in the amount of <u>one thousand dollars (\$1,000.00</u>) to secure payment to the Commissioner of such damage as may occur to livestock, range, water, crops or tangible improvements on the subject lands as may result from Grantee's use and occupation under this Easement. Such bond shall be payable for the term of this Easement, and may be utilized for reclamation of disturbed lands following the operations of Grantee under this Easement. Payment under this paragraph is to be made to the Commissioner and not to any other party. Grantee's bond shall not be liquidated damages, and the Commissioner reserves the right to pursue any other remedy for damages available at law or in equity.

23. Indemnification

Grantee shall hold harmless, indemnify and defend the State of New Mexico, the Commissioner and the Commissioner's employees, agents, and contractors, and beneficiaries, in both their official and individual capacities, from any and all liabilities, claims, losses, damages, or expenses, including but not limited to reasonable attorneys' fees, loss of land value, third party claims, penalties or removal, remedial or restoration costs arising out of, alleged to arise out of or indirectly connected with a) the operations hereunder of Grantee or Grantee's employees, agents, contractors, or invitees, b) any hazardous materials located in, under, or upon or otherwise affecting the Easement Land or adjacent property, or c) the activities of third parties on the Easement Land, whether with or without Grantee's knowledge or consent. In the event that any action, suit or proceeding is brought against Grantee, Grantee shall, as soon as practicable but no later than two (2) days after it receives notice thereof, notify the legal counsel of the Commissioner and the Risk Management Division of the New Mexico General Services Department by certified mail. This paragraph shall survive the termination, cancellation or relinquishment of this Water Easement, and any cause of action of the Commissioner to enforce this provision shall not be deemed to accrue until the Commissioner's actual discovery of said liability, claim, loss, damage, or expense.

24. Insurance

During the Term of this Water Easement, Grantee shall, at Grantee's cost and expense and at no cost to the Commissioner, insure all improvements against liability to third parties and for construction risks, in accordance with industry standards for the estimate probably loss. Grantee's insurance carriers shall be in good standing, adequately underwritten, and duly licensed to issue insurance policies in New Mexico. Grantee shall provide the Commissioner proof of insurance. In addition, Grantee shall obtain at its own expense, insurance coverage adequate to protect its operations, property, employees and agents in amounts Grantee finds sufficient. Grantee shall be solely responsible for obtaining insurance policies that provide coverage for losses of Grantee owned property, including improvements. The Commissioner shall not be required to provide such insurance coverage or be responsible for payment of Grantee's costs for such insurance.

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25. No Waiver by Commissioner

No employee or agent of the Commissioner has the power, right, or authority to orally waive any of the conditions, covenants, or agreements of this Easement; and no waiver by the Commissioner of any of the conditions, covenants, or agreements of this Easement shall be effective unless in writing and executed by the Commissioner. The Commissioner's waiver of Grantee's breach or default of any of the conditions, covenants, or agreements hereof shall not constitute or be construed as a waiver of any other or subsequent breach or default by Grantee. The failure of the Commissioner to enforce at any time any of the conditions, covenants, or agreements of this Easement, or to exercise any option herein provided, or to require at any time performance by Grantee of any of the conditions, covenants, or agreements of this Easement shall not constitute or be construed to be a waiver of such conditions, covenants, or agreements, nor shall it affect the validity of this Easement or any part thereof, or the Commissioner's right to thereafter enforce each and every such condition, covenant, or agreement.

26. Scope of Agreement

This Easement incorporates all the agreements, covenants, and understandings between the Commissioner and Grantee concerning the subject matter hereof and all such agreements, covenants, and understandings are merged into this Easement. No prior agreement or understanding between the Commissioner and Grantee shall be valid or enforceable unless expressly embodied in this Easement.

27. Non-impairment

Nothing in this Easement is to be construed to allow the impairment of the rights of any lawful holder, present or future, of any geothermal resources, or any mineral, grazing, commercial, easement, or Water Rights on the subject or any other state trust lands.

28. Severability

In the event that any provision of this Easement is held invalid or unenforceable under applicable law, this Easement shall be deemed not to include that provision and all other provisions shall remain in full force and effect.

29. Successors In Interest

All terms, conditions, and covenants of this Easement and all amendments thereto shall extend to and bind the permitted heirs, successors, and assigns of Grantee and the Commissioner. There are no third party beneficiaries of this Easement.

30. Dispute Resolution, Applicable Law and Venue

Any disputes arising under or in connection with this Easement shall be first resolved by mandatory contest pursuant to 19.2.15 NMAC. Subsequent appeal, if any, shall be in the First Judicial District Court of Santa Fe. In all instances, the law of New Mexico shall apply. The laws of the State of New Mexico shall govern this Easement, without giving effect to the conflict of law provisions of the State of New Mexico. Grantee consents to venue and jurisdiction in the District Court in and for the County of Santa Fe, State of New Mexico for purposes of any appeal pursuant to 19.2.15 NMAC, and to service of process under the laws of the State of New Mexico in any action relating to this Easement or its subject matter.

31. Time

Time is of the essence in the performance of each and every provision of this Easement, Grantee's failure to perform any or all of its obligations under this Easement in a timely manner shall be a breach of this Easement.

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32. Singular And Plural

Whenever the singular is used herein, the same shall include the plural.

33. Headings And Titles

The use of section or paragraph headings and titles herein is for descriptive purposes only and is independent of the covenants, conditions, and agreements contained herein.

34. No Joint Venture

The Commissioner is not and will not be construed or held to be a partner, joint venturer or associate of Grantee in the conduct of the business of Grantee. The Commissioner will not be liable for any debts incurred by Grantee in the conduct of the business of Grantee. The relationship between the Commissioner and Grantee is, and will remain, solely that of the Commissioner and Grantee.

35. No Commissioner Personal Liability

In the event of a court action, Grantee shall not seek damages from the Commissioner or any employee of SLO or the State of New Mexico in their individual capacity. This Section shall survive termination of this Easement.

36. Stipulations

This easement is being issued with the expectation that all fees, bond(s) and requested data and information has been submitted or will imminently be received by the State Land Office. Should a subsequent audit of this easement reveal any of the above stated items have not been submitted, the New Mexico State Land Office will issue a letter to you requiring that you come into compliance, and the easement holder shall have 30 days to submit the missing item(s) or this easement may be terminated.

- Quickly re-establish vegetation on reclaimed areas upon completion of the well installation to minimize impacts to the watershed, water quality, and wildlife habitat.
- Quickly correct any erosion that occurs on the easement and take proper measures to prevent future erosion.
- Adhere to the recommendations outlined in the Karst Survey Report for the Way South State 001H Monitoring Wells and Boreholes published by CEHMM.
- Adhere to the stipulations outlined in the NMSLO biological field report.
- Provide the NMSLO Water Bureau 1) Well Files and 2) PODs from the Office of the State Engineer, 'NMOSE' when available.

37. Notices

Written notice by registered or certified U.S. Postal Service, return receipt requested, or delivered by reputable overnight courier, return receipt of tracking system, to the addresses of the party hereunder shall constitute sufficient notice to comply with the terms of this Easement. Notice will be deemed effective upon delivery. Either the Commissioner or Grantee may change its respective address as provided in this Section effective three (3) business days after giving written notice of the change to the other. The addresses for notice are:

Notice to the Commissioner:

New Mexico Commissioner of Public Lands Attn: Oil Gas Minerals Division P.O. Box 1148 Santa Fe, New Mexico 87504-1148 Tel: (505) 827-5760

With copy to: New Mexico State Land Office General Counsel P.O. Box 1148 Santa Fe, NM 87504-1148 Tel: (505) 827-5756

Notice to Grantee:

COG Operating LLC Attn: Ike Tavarez 600 W. Illinois Ave. Midland, TX 79701 Phone: 432-701-8630

Email: Ike. Tavarez@ConocoPhillips.com

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IN WITNESS WHEREOF, the Commissioner of Public Lands and Grantee have signed this Easement to be effective on the date signed by the Commissioner.

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GRANTEE:		
COG OPERATING		
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Stephanie Garcia Richard COMMISSIONER

State of New Mexico Commissioner of Public Lands

COMMISSIONER'S OFFICE Phone (505) 827-5760 Fax (505) 827-5766 www.nmstatelands.org

310 OLD SANTA FE TRAIL P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

May 1, 2023

ConocoPhillips (Tetra Tech as Contractor) Attn: Ike Tavarez 600 W Illinois Ave. Midland, TX 79701

RE: Rule 12 Water Exploration / Soil Boring Permit # WE-0818

We are in receipt of your application and fees (\$ 100.00 per Application) requesting a TEMPORARY BORING PERMIT for Water exploration. The effective date of this authorization is for a period of not to exceed 1 year, commencing on May 1, 2023 and ending on April 30, 2024. This Authorization (Right of Entry) letter is for the sole purpose of 3 soil borings to depth of 25' bgs and 6 soil borings to 1' bgs in the following locations:

Township	Range	Section	Subdivision	County	Coordinates
					32.018720, -104.119516
					32.019358, -104.118459
26S	28E	30	NE4NE4	17.14	32.018332, -104.119744
205	20E	30	NE4NE4	Eddy	32.019316, -104.119839
					32.020156, -104.119364
					32.018655, -104.120179

CONDITIONS OF USE

- A. The issuance of this Exploration Authorization does not guarantee a Water Easement will be issued for this property being explored, nor does it indicate a preference for a future water easement issuance to the holder of the authorization by the Commissioner of Public Lands.
- B. No refund of Permit application fees will occur after Permit approval letter is mailed.
- C. Authorized party shall notify the State Land Office District Resource Manager by telephone at least one business day prior to commencing any exploration activities.
- D. No blading or widening of any two-track dirt roads that provides access to the Property is permitted under this Authorization, except as necessary for the ingress and egress of required vehicles.
- E. No mining or removal of material for purposes other than testing is allowed under this Authorization. No sale of any material extracted from the Property is allowed under this Authorization.
- F. Authorized party shall observe all federal, state and local laws and regulations applicable to the Property.
- G. Authorized party shall take all reasonable precautions to prevent and suppress forest, brush and grass fires and prevent pollution of waters on or in the vicinity of the Property.
- H. Authorized party shall not block or disrupt roads or trails commonly in use.
- I. This Authorization is subject to any and all easements and rights-of-way previously granted and now in force and affect.

WE-818

Received by OCD: 7/23/2025 10:08:10 AM

- J. Authorized party shall be responsible for repair and restitution for damage to any property improvements as a result of activities related to this exploration.
- K. Authorized party shall conduct exploration activities only if a state-permitted archaeologist as per the Cultural Properties Act, §18-6-5(O) is present on the permitted site if an archaeological survey has not been conducted clearing the work beforehand. Authorized party shall abide by the decisions of the permitted Archaeologist regarding prevention of damage to cultural property sites. An archaeological report is to be submitted to State Land Office Cultural Resources Specialist within fifteen (15) days of the expiration date of this Authorization. (An archeologist is not required to be present as long as there are no surface disturbing activities being performed).

SURFACE RECLAMATION AND RESTORATION

- A. All test holes must be plugged as soon as testing is completed.
- B. Drilling, excavation and other surface disturbing activities shall be restricted to areas deemed to have no archaeological significance.
- C. Access to the Property shall be over existing roads. Reclamation of all roads shall conform to the requirements of State Land Office Rule 20. No upgrading of the existing roads shall be done, except as necessary for the ingress and egress of required vehicles.
- D. All topsoil from the areas to be disturbed shall be stockpiled for use in reclamation.
- E. Upon completion of the use and operations permitted by this Authorization, all disturbed sites shall be recontoured to approximate the original contours.
- F. All material removed by excavation shall be replaced into the test holes, with the exception of an adequate sample, on or before the expiration date of this Authorization.
- G. The natural environmental conditions that exist contemporaneously with this grant shall be preserved and protected. All applicable environmental laws and regulations shall be complied with and such reclamation or corrective actions as may be necessary to conduct EXPLORATORY WELL BORING consistent with safe and sound environmental management principles and practices shall be taken in order to protect the Property from any pollution, erosion or other environmental degradation and to avoid diminishing the value of the Property for any future use.

INDEMNITY

Authorized party shall save, hold harmless, indemnify and defend the State of New Mexico, the Commissioner and Commissioner's employees, agents and contractors, in both their official and individual capacities, from any and all liability, claims, losses, damages, or expenses of any character or nature whatsoever, including but not limited to attorney's fees, court costs, loss of land value or use, third party claims, penalties, or removal, remedial or restoration costs arising out of, or alleged to arise out of:

- A. The operations or presence on the Property, or on adjacent or proximate state trust lands, including those used to access the Property for the purposes of this Authorization, of Authorized party or authorized party's employees, agents, contractors or invitees;
- B. The activities of third parties on the Property, or on adjacent or proximate state trust lands, including those used to access the Property or other adjacent or proximate state trust lands, whether with or without Authorized party's knowledge or consent;
- C. Any Hazardous Materials located in, under, upon or otherwise affecting the Property or adjacent or proximate state trust lands, regardless of their point of origin or date of contamination.

If you have any questions or concerns please contact Faith Crosby, Water Bureau Manager at (505) 827-5849 or David Gallegos, Water Resource Analyst at (505) 476-0378.

Respectfully,

Stephanie Garcia Richard Commissioner of Public Lands

SS/dg

xc: Azucena Ramirez, NMOSE District II, <u>Azucena.Ramirez@ose.nm.gov</u> Steve Jester, Tetra Tech, STEVE.JESTER@tetratech.com Kelli Fox, NMSLO DRM Director

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Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 752532 File Nbr: C 04784

Oct. 31, 2023

JOHN SCARBOROUGH TETRA TECH ON BEHALF OF CONOCO PHILLIPS PO BOX 305 LAMESA, TX 79331

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

Mzucena Ramirez (575)622-6521

Enclosure

explore

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NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT



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(check applicable box):

0	Pollution Control	☐ Ground Source Heat Pump
Purpose:	And/Or Recovery	
Exploratory Well*(Pump test)	Construction Site/Power Works Dewatering	ublic Other(Describe)
Monitoring Well	☐ Mine Dewatering	
		ess if use is consumptive or nonconsumptive. WB) will be notified if a proposed exploratory well is used for public water supply
Temporary Request - Request	ed Start Date: November 1,	2023 Requested End Date: June 30,2024
Plugging Plan of Operations Subr	mitted? Tyes No	
. APPLICANT(S)		
Name: Fetra Tech Inc on Behalf of Conoc	oPhillips	Name:
Contact or Agent:	check here if Agent	Contact or Agent: check here if Agent
John Scarborough Drilling Inc		
Mailing Address: P.O. Box 305		Mailing Address:
City _amesa		City:
State: Fexas	Zip Code: 79331	State: Zip Code:
Phone: 806-759-4239 Phone (Work):	☐ Home ■ Cell	Phone:
E-mail (optional): svs51@hotmail.com		E-mail (optional):
		AL IN THE MERITAGEN
	FOR OSE INTERNAL USE	Application for Permit, Form WR-07, Rev 07/12/22
	File No.: (-478)	Trn. No.: 75253') Receipt No.: 2-4502
	Trans Description (optional	
	Sub-Basin: (1)	PCW/LOG Due Date: 10 20 10

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2. WELL(S) Describe the well(s) applicable to this application

NM State Plane (NAD83) NM West Zone NM East Zone NM Central Zone		JTM (NAD83) (Met]Zone 12N]Zone 13N	ers) Lat/Long (WGS84) (to the nearest 1/10 th of second)
Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
-4784 PODL MW-1	32.018726°	-104.119419°	Section 30, Township 26 South, Range 28 East
-4784-POD2 MW-2	32.019704°	-104.119080°	Section 30, Township 26 South, Range 28 East
L-4784-7003	32.018475°	-104.118415°	Section 30, Township 26 South, Range 28 East
		bed complete for Yes 🔀 No	m WR-08 (Attachment 1 - POD Descriptions) If yes, how many
Additional well description	ns are attached:	Yes 🔀 No	If yes, how many
Additional well description Other description relating we	ns are attached:	Yes 🔀 No	If yes, how many
Additional well description Other description relating we Well is on land owned by NI	ns are attached:	Yes 🚫 No rks, streets, or othe	If yes, how many
Additional well description Other description relating we Well is on land owned by NI Well Information: NOTE: If If yes, how many	ms are attached: ell to common landmar MSLO more than one (1) w	Yes No rks, streets, or othe yell needs to be de	If yes, how many r. escribed, provide attachment. Attached? Yes No Outside diameter of well casing (inches): 2
Additional well description Other description relating we Well is on land owned by NI Well Information: NOTE: If If yes, how many Approximate depth of well (f	ms are attached: ell to common landman MSLO f more than one (1) w feet): MWs are 50 ft, B	Yes No rks, streets, or othe yell needs to be de	If yes, how many r. escribed, provide attachment. Attached? Yes No
Additional well description Other description relating we Well is on land owned by NI Well Information: NOTE: If	ms are attached: all to common landman MSLO more than one (1) w feet): MWs are 50 ft, B bugh	Yes No rks, streets, or othe yell needs to be de Gs are 25 ft NS	If yes, how many r. escribed, provide attachment. Attached? Yes No Outside diameter of well casing (inches): 2 Driller License Number: WD1188
Additional well description Other description relating we Well is on land owned by NI Well Information: NOTE: If If yes, how many Approximate depth of well (f Driller Name: John Scarboro ADDITIONAL STATEMENT	ms are attached: all to common landman MSLO more than one (1) w feet): MWs are 50 ft, B bugh	Yes No rks, streets, or othe yell needs to be de Gs are 25 ft NS	If yes, how many r. escribed, provide attachment. Attached? Yes No Outside diameter of well casing (inches): 2 Driller License Number: WD1188

File No.: C-4784

Tm No.: 7-52.53 2 Page 2 of 3

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4. SPECIFIC REQUIREMENTS: The applicant must include the following as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application Mine De-Watering: Construction Pollution Control and/or Recovery: Exploratory: Include a plan for pollution De-Watering: Include a plan for pollution Is proposed control/recovery, that includes the following Include a description of the control/recovery, that includes the A description of the need for mine well a future proposed dewatering following: public water dewatering. A description of the need for the operation, ☐ The estimated maximum period of time ☐ The estimated duration of pollution control or recovery operation supply well? for completion of the operation. the operation, ☐ The estimated maximum period of Yes INO The source(s) of the water to be diverted. ☐ The maximum amount of time for completion of the operation. If Yes, an The geohydrologic characteristics of the water to be diverted. ☐ The annual diversion amount.☐ The annual consumptive use application must aquifer(s). A description of the need be filed with The maximum amount of water to be for the dewatering operation, amount. NMED-DWB. diverted per annum. The maximum amount of water to be concurrently. ☐The maximum amount of water to be A description of how the diverted and injected for the duration of diverted for the duration of the operation. diverted water will be disposed Include a the operation. The quality of the water description of ☐ The method and place of discharge. The method of measurement of water the requested ☐ The method of measurement of **Ground Source Heat Pump:** pump test if diverted. Include a description of the water produced and discharged The recharge of water to the aquifer. geothermal heat exchange applicable. ☐ The source of water to be injected Description of the estimated area of project. The method of measurement of The number of boreholes hydrologic effect of the project. Monitoring water injected. The method and place of discharge. for the completed project and The characteristics of the aquifer. The reason An estimation of the effects on surface required depths. The method of determining the and duration water rights and underground water rights ☐ The time frame for resulting annual consumptive use of of the from the mine dewatering project. water and depletion from any related constructing the geothermal A description of the methods employed to monitoring is heat exchange project, and, stream system. estimate effects on surface water rights and required. The duration of the project. Proof of any permit required from the underground water rights. New Mexico Environment Department Preliminary surveys, design Information on existing wells, rivers. An access agreement if the data, and additional springs, and wetlands within the area of applicant is not the owner of the land on information shall be included to hydrologic effect. provide all essential facts which the pollution plume control or relating to the request. recovery well is to be located **ACKNOWLEDGEMENT** Stephen L. Jester I, We (name of applicant(s)). Print Name(s) affirm that the foregoing statements are true to the best of (my, our) knowledge and belief Applicant Signature Applicant Signature **ACTION OF THE STATE ENGINEER** This application is: **approved** partially approved ☐ denied provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval. 20 23 for the State Engineer Witness my hand and seal this State Engineer Application for Permit, Form WR-07 Version 07/12/22

FOR OSE INTERNAL USE

File No.:

Tm No.:

Page 3 of 3

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- No water shall be appropriated and beneficially used under this permit.
- The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Enqueer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: C 04784 PODS1-3 File Number: C 04784

Trn Number: 752532

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NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.

 The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Trn Desc: C 04784 PODS1-3 File Number: C 04784

Trn Number: <u>752532</u>

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG	The	Point	$\circ f$	Diversion	C	04784	POD1	must	be	completed	and	the	Well	
	Log	filed	on	or before	10	0/30/20	024.							

- LOG The Point of Diversion C 04784 POD2 must be completed and the Well Log filed on or before 10/30/2024.
- LOG The Point of Diversion C 04784 POD3 must be completed and the Well Log filed on or before 10/30/2024.

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIBITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected: Formal Application Rcvd: 10/25/2023 Pub. of Notice Ordered: Date Returned - Correction: Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 31 day of Oct A.D., 2023

Mike A. Hamman, P.E. , State Engineer

37. XX

Trn Desc: C 04784 PODS1-3

File Number: C 04784

Trn Number: 752532

page: 3

STATE OF NEW MEXICO

OFFICE OF THE STATE ENGINEER ROSWELL

Mike A. Hamman, P.E.

State Engineer

DISTRICT II

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623-8559

October 30, 2023

Tetra Tech Inc. on behalf of Conoco Phillips 901 W. Wall Street, Suite 100 Midland, TX 79701

RE: Well Plugging Plan of Operations for well No. C-4784-POD1 to POD3

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,

Kashyap Parekh

Water Resources Manager I



STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER ROSWELL

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521

Fax: (575) 623-8559

Applicant has identified wells, listed below, to be plugged. John Scarborough (WD=1188) will perform the plugging.

Permittee: Tetra Tech Inc. on behalf of Conoco Phillips NMOSE Permit Number: C-4784-POD1 to POD3

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4784-POD1	2.0	50.0	Unknown	32.018726°	104.119419°
C-4784-POD2	2.0	50.0	Unknown	32.019704°	104.119080°
C-4784-POD3	2.0	50.0	Unknown	32.018475°	104.118415°

Specific Plugging Conditions of Approval for Well located in Eddy County.

- Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
- 2. Theoretical volume of sealant required for abandonment of the 2.0 inch diameter casing is approximately 8.15 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 50.0 feet below ground surface (b.g.s.).
- 3. The cement-bentonite slurry (bentonite powder) shall be mixed using a maximum of 5.2 gallons water per 94-lb sack of Type I/II Portland cement PLUS 0.65 gallons per 1% increase in bentonite up to a maximum 6% bentonite by dry weight ratio.
- 4. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.
- 5. Placement of the sealant within the wells shall be by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column.

- 6. Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 3. of these Specific Conditions of Approval.
- 7. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.
- 8. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
- 9. NMOSE witnessing of the plugging of the non-artesian well will not be required.
- 10. Any deviation from this plan must obtain an approved variance from this office prior to implementation.
- 11. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 30th day of October 2023

Mike A. Hamman, P.E. State Engineer

By: K. Parell

Kashyap Parekh Water Resources Manager I Released to Imaging: 9/30/2025 11:31:16 AM





WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

	NERAL / WELL OW	<u> </u>				same site and attaching WD-0
Existing	g Office of the State E	Engineer POD Number	r (Well Number)	for well to be plu	gged: (-4	786-PODI t
Name o	f well owner: Tetra	Tech Inc. on Behalf of C	ConocoPhillips			
Mailing	address: 901 W Wall	St. Suite 100		Count	ty:	
City: N	lidland		_ State:	Texas		Zip code: 79701
Phone n	umber: 713-806-8871		E-mail:	steve.jester@tetr	atech.com	
III. WE	LL DRILLER INFO	RMATION:				
Well Dr	iller contracted to prov	ide plugging services:	John Scarboroug	n Drilling Inc.		
	exico Well Driller Lice				on Date: 03/31/	/2024
IV. WE	ELL INFORMATION	Check here if this p	lan describes method WD-08m and skip to	for plugging multiple #2 in this section.	monitoring wells	on the same site and attach
	copy of the existing W					
1)	GPS Well Location:	Latitude: Longitude:	deg,	min,	sec	AD 92
		Longitude.	deg,		SCC, 147	30 2025 141, 35
2)	Reason(s) for plugging	g well(s):			and an inches of the	400000
	Completion of monitor					
	Completion of mornior	ing period				
3)		type of monitoring proparameters were monit				
		om the New Mexico E				
Δ	Director office for	.1. * .1		ا I INIZ و	16	tale and distances alone to
4)	•	ckish, saline, or otherw	· · · · · · · · · · · · · · · · · · ·		II yes, prov	ide additional detail,
		sults and/or laboratory	report(s): Unknow	/n		
5)	Static water level:	UNK feet belo	w land surface / fe	et above land surfa	ace (circle one	e)
6)	Depth of the well:	up to 50 feet				

7)	Inside diameter of innermost casing:inches.						
8)	Casing material: Sch. 40 PVC						
9)	The well was constructed with: an open-hole production interval, state the open interval: a well screen or perforated pipe, state the screened interval(s): 20-30 ft bgs/depending on depth to GW						
10)	What annular interval surrounding the artesian casing of this well is cement-grouted? NA- Temp						
11)	Was the well built with surface casing?NAIf yes, is the annulus surrounding the surface casing grouted or otherwise sealed?NAIf yes, please describe:						
	Temporary Well						
12)	Has all pumping equipment and associated piping been removed from the well?If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.						
<u>V.</u> D	ESCRIPTION OF PLANNED WELL PLUGGING: If plugging method differs between multiple wells on same site, a separate form must be completed for each method.						
diagra	If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed m of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such physical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.						
Also, if	this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.						
1)	Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology						
	proposed for the well:						
	Tremie Type 1 Cement-Bentonite Słurry from bottom of boring to ground level.						
2)	Will well head be cut-off below land surface after plugging? NA Temporary						
VI. P	LUGGING AND SEALING MATERIALS:						
	The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recibe company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.						
1)	For plugging intervals that employ cement grout, complete and attach Table A.						
2)	For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.						
3)	Theoretical volume of grout required to plug the well to land surface: 8.1 gallons						
4)	Type of Cement proposed: Type 1 Cement-Bentonite						
5)	Proposed cement grout mix: 5 gallons of water per 94 pound sack of Portland cement.						
6)	Will the grout be:batch-mixed and delivered to the sitex mixed on site						

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7)			
	Grout additives requested, and percent by dry weight relative to cement: N/A	 -	
3)	Additional notes and calculations:		
''	N/A		
/II.	ADDITIONAL INFORMATION: List additional information below, or on separat	e sheet(s):	
N/A			
/W W W	SIGNATUDE.		
	SIGNATURE: ephen Jester	regoing Well Pluggir	ng Plan of
Ste	ephen Jester, say that I have carefully read the for rations and any attachments, which are a part hereof; that I am familiar with the rules a	nd regulations of the	State
Ste Opera	ephen Jester , say that I have carefully read the for	nd regulations of the all of the statements	State
Ste Opera	ephen Jester, say that I have carefully read the forations and any attachments, which are a part hereof; that I am familiar with the rules a neer pertaining to the plugging of wells and will comply with them, and that each and ging Plan of Operations and attachments are true to the best of my knowledge and believed to the best of my knowledge by Stephen.	and regulations of the all of the statements ef.	State in the Well
, <u>Ste</u> Opera Engin	ephen Jester, say that I have carefully read the forations and any attachments, which are a part hereof; that I am familiar with the rules a neer pertaining to the plugging of wells and will comply with them, and that each and ging Plan of Operations and attachments are true to the best of my knowledge and believed.	and regulations of the all of the statements ef.	State
Ste Opera	ephen Jester, say that I have carefully read the forations and any attachments, which are a part hereof; that I am familiar with the rules a neer pertaining to the plugging of wells and will comply with them, and that each and ging Plan of Operations and attachments are true to the best of my knowledge and beling the stephen Jester	and regulations of the all of the statements ef.	State in the Well 10/30/2023
, Ste Opera Engin Plugg	ephen Jester, say that I have carefully read the forations and any attachments, which are a part hereof; that I am familiar with the rules a neer pertaining to the plugging of wells and will comply with them, and that each and ging Plan of Operations and attachments are true to the best of my knowledge and beling the stephen Jester	and regulations of the all of the statements ef.	State in the Well 10/30/2023
I, Ste Opera Engin Plugg	ephen Jester, say that I have carefully read the forations and any attachments, which are a part hereof; that I am familiar with the rules a neer pertaining to the plugging of wells and will comply with them, and that each and ging Plan of Operations and attachments are true to the best of my knowledge and beling the stephen Jester	and regulations of the all of the statements ef.	State in the Well 10/30/2023
, Ste Opera Engin Plugg	say that I have carefully read the forations and any attachments, which are a part hereof; that I am familiar with the rules a neer pertaining to the plugging of wells and will comply with them, and that each and ging Plan of Operations and attachments are true to the best of my knowledge and beling the signed by Stephen Jester Signature of Applicant ACTION OF THE STATE ENGINEER: Well Plugging Plan of Operations is:	and regulations of the all of the statements ef.	State in the Well 10/30/2023
Ste Opera Engin Plugg	ephen Jester, say that I have carefully read the forations and any attachments, which are a part hereof; that I am familiar with the rules a neer pertaining to the plugging of wells and will comply with them, and that each and ging Plan of Operations and attachments are true to the best of my knowledge and beling the stephen Jester	and regulations of the all of the statements ef.	State in the Well 10/30/2023
, Ste Opera Engin Plugg	say that I have carefully read the forations and any attachments, which are a part hereof; that I am familiar with the rules a neer pertaining to the plugging of wells and will comply with them, and that each and ging Plan of Operations and attachments are true to the best of my knowledge and beling the signed by Stephen Jester Signature of Applicant ACTION OF THE STATE ENGINEER: Well Plugging Plan of Operations is: Approved subject to the attached conditions. Not approved for the reasons provided on the attached letter.	and regulations of the all of the statements ef. Jester 0500:	State in the Well 10/30/2023 Date
I, Ste Opera Engin Plugg	say that I have carefully read the forations and any attachments, which are a part hereof; that I am familiar with the rules a neer pertaining to the plugging of wells and will comply with them, and that each and ging Plan of Operations and attachments are true to the best of my knowledge and beling the signed by Stephen Jester Signature of Applicant ACTION OF THE STATE ENGINEER: Well Plugging Plan of Operations is: Approved subject to the attached conditions.	and regulations of the all of the statements ef. Jester 0500:	State in the Well 10/30/2023 Date
, Ste Opera Engin Plugg	say that I have carefully read the formations and any attachments, which are a part hereof; that I am familiar with the rules a neer pertaining to the plugging of wells and will comply with them, and that each and ging Plan of Operations and attachments are true to the best of my knowledge and beling the signed by Stephen Date: 2023.10.30 12:52:14. Signature of Applicant ACTION OF THE STATE ENGINEER: Well Plugging Plan of Operations is: Approved subject to the attached conditions. Not approved for the reasons provided on the attached letter. Witness my hand and official seal this 30 that day of 0 ctol	and regulations of the all of the statements ef. Jester 0500.	State in the Well 10/30/2023 Date
, Ste Opera Engin Plugg	say that I have carefully read the forations and any attachments, which are a part hereof; that I am familiar with the rules a neer pertaining to the plugging of wells and will comply with them, and that each and ging Plan of Operations and attachments are true to the best of my knowledge and beling the state of the plugging Plan of Operations and attachments are true to the best of my knowledge and beling the state of the plugging Plan of Operations is: Action of the state engineer: Approved subject to the attached conditions. Not approved for the reasons provided on the attached letter. Witness my hand and official seal this 30 day of 0 ctol	Ind regulations of the all of the statements ef. Jester 0500:	State in the Well 10/30/2023 Date 2 3 The Engineer
, Ste Opera Engin Plugg	say that I have carefully read the forations and any attachments, which are a part hereof; that I am familiar with the rules a neer pertaining to the plugging of wells and will comply with them, and that each and ging Plan of Operations and attachments are true to the best of my knowledge and beling the state of the plugging Plan of Operations and attachments are true to the best of my knowledge and beling the state of the plugging Plan of Operations is: Action of the state engineer: Approved subject to the attached conditions. Not approved for the reasons provided on the attached letter. Witness my hand and official seal this 30 day of 0 ctol	Ind regulations of the all of the statements ef. Jester 0500:	State in the Well 10/30/2023 Date 23 e Engineer
, Ste Opera Engin Plugg	say that I have carefully read the formations and any attachments, which are a part hereof; that I am familiar with the rules a neer pertaining to the plugging of wells and will comply with them, and that each and ging Plan of Operations and attachments are true to the best of my knowledge and beling the signed by Stephen Date: 2023.10.30 12:52:14. Signature of Applicant ACTION OF THE STATE ENGINEER: Well Plugging Plan of Operations is: Approved subject to the attached conditions. Not approved for the reasons provided on the attached letter. Witness my hand and official seal this 30 that day of 0 ctol	Ind regulations of the all of the statements ef. Jester 0500:	State in the Well 10/30/2023 Date 23 e Engineer

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			0
Bottom of proposed interval of grout placement (ft bgl)			50
Theoretical volume of grout required per interval (gallons)			8.1
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			5
Mixed on-site or batch- mixed and delivered?			on-site
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			ESE DI 1907 30 2023 mil 135
Additive 2 percent by dry weight relative to cement			

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			
Bottom of proposed sealant of grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			

USS DITLICT 30 2023 PML 152

Released to Imaging: 9/30/2025 11:31:16 AM



NEW MEXICO OFFICE OF THE STATE ENGINEER



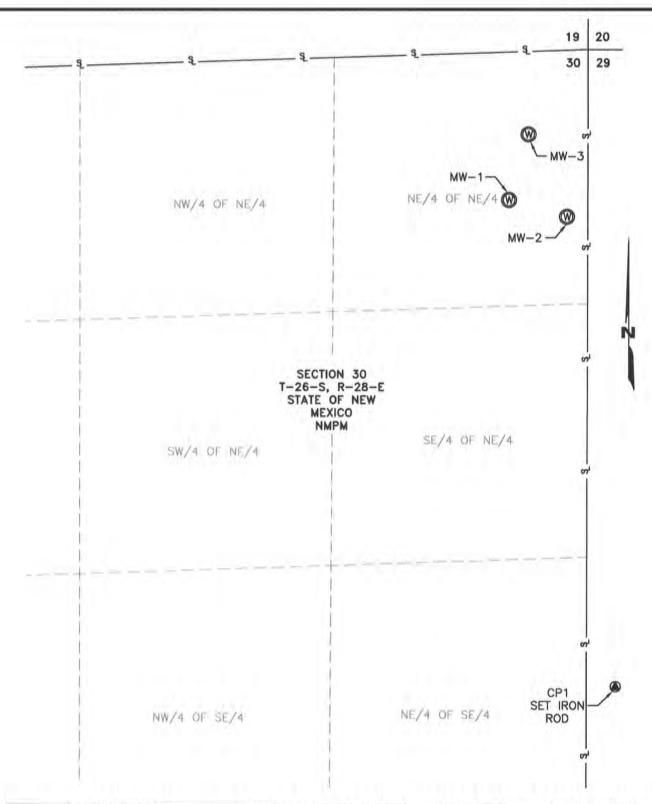
Released to Imaging: 9/30/2025 11:31:16 AM

ATTACHMENT to WD-08 Plan of Plugging **MULTIPLE MONITORING WELL DESCRIPTIONS**

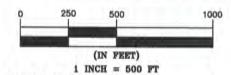
This Attachment is to be completed if more than one (1) monitoring well is to be plugged using the same method.

e)
Surface Casing (Y or N)

FOR OSE INTERNAL USE	Multiple Montioring POD Descriptions, Form wr-08m (Rev 7/31/19
File Number:	Trn Number:
Trans Description (optional)	



DESCRIPTION	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION
CONTROL POINT 1 (5/8" IRON ROD W/CAP)	368091.99'	608191.64'	N 32.01178154°	W 104.11763916°	3061.27'
CONTROL POINT 2 (5/8" IRON ROD W/CAP)	366892.72'	608124.14	N 32.00848514°	W 104.11786466°	3059.39'
MW-1 TOP OF WELL PLATE	370617.40'	607636.25	N 32.01872687°	W 104.11941488°	3010.89'
MW-1 TOP OF WELL HEAD	370617,34'	607636.26'	N 32.01872672°	W 104.11941485°	3010.80'
MW-1 TOP OF CONCRETE NORTH SIDE	370618.10'	607636.47	N 32.01872880°	W 104.11941418°	3008.13
MW-I TOP OF GROUND	370615,38'	607636.20'	N 32.01872131°	W 104.11941508°	3007.90'
MW-2 TOP OF WELL PLATE	370959.72'	607738.53'	N 32.01966733°	W 104.11908270°	3009.64'
MW-2 TOP OF WELL HEAD	370959.80'	607738.59'	N 32.01966755°	W 104.11908249°	3009.56'
MW-2 TOP CONCRETE NORTH SIDE	370960.53'	607738.79'	N 32.01966956°	W 104.11908184°	3007.24'
MW-2 TOP OF GROUND	370957.49'	607738.34'	N 32.01966120°	W 104.11908331°	3006.83'
MW-3 TOP OF WELL PLATE	370531.03'	607937.94'	N 32.01848779°	W 104.11844204°	3009.07'
MW-3 TOP OF WELL HEAD	370530.97'	607937.89'	N 32.01848762°	W 104.11844219°	3008.99'
MW-3 TOP OF CONCRETE NORTH SIDE	370531.62'	607937.87'	N 32.01848942°	W 104.11844224°	3006.84
MW-3 TOP OF GROUND	370524.17'	607938.69'	N 32.01846894°	W 104.11843964°	3006.37'



1 INCH = DOU FT

SURVEY DATE: 04/30/2024

NOTES:
1. COMPANION PLAT IS FILED IN THE OFFICE OF THIS SURVEYOR AND FURTHER DESCRIBES THE RECONSTRUCTION OF THE SURVEY UNDER M:\1024087618\100\Survey\0280se\87618 - Base.dwg

2. COORDINATES SHOWN HEREON ARE BASED UPON THE TRANSVERSE MERCATOR PROJECTION OF THE NEW MEXICO SYSTEM, NEW MEXICO EAST ZONE, NORTH AMERICAN DATUM OF 1983(2011), COORDINATES ARE GRID.

3. ALL ELEVATION SHOWN HEREON ARE NAVD88 IN U.S. SURVEY FEET.



LEGEND



MONITOR WELL



CONTROL POINT

LOCATION OF MONITOR WELLS MW-1, MW-2, MW-3 SECTION 30, T-26-S, R-28-E, STATE OF NEW MEXICO, NMPM, EDDY COUNTY, NEW MEXICO



5 22 24

87618 JOB NO .: DATE: 05/21/2024 E NO.: 1 OF 1 PAGE NO.:

APPENDIX F Laboratory Analytical Data



April 23, 2024

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: WAY SOUTH STATE COM #001H FWKO TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/17/24 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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: 04/17/2024 Sampling Date: 04/16/2024

Reported: 04/23/2024 Sampling Type: Soil

WAY SOUTH STATE COM #001H FWKO -Project Name: Sampling Condition: Cool & Intact Project Number: 212C - MD - 02839 Sample Received By: Shalyn Rodriguez

Project Location: COP - EDDY CO NM

Sample ID: BG - 2 (0-1') (H242053-01)

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	04/20/2024	ND	2.13	106	2.00	3.48	
Toluene*	<0.050	0.050	04/20/2024	ND	2.07	103	2.00	3.66	
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.01	101	2.00	4.05	
Total Xylenes*	<0.150	0.150	04/20/2024	ND	5.93	98.9	6.00	3.91	
Total BTEX	<0.300	0.300	04/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.0	% 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	416	16.0	04/19/2024	ND	464	116	400	3.39	
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	04/19/2024	ND	192	96.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	185	92.3	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	67.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.7	% 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: 04/17/2024 Sampling Date: 04/16/2024

Reported: 04/23/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP - EDDY CO NM

Sample ID: BG - 2 (1'-2') (H242053-02)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2024	ND	2.13	106	2.00	3.48	
Toluene*	<0.050	0.050	04/20/2024	ND	2.07	103	2.00	3.66	
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.01	101	2.00	4.05	
Total Xylenes*	<0.150	0.150	04/20/2024	ND	5.93	98.9	6.00	3.91	
Total BTEX	<0.300	0.300	04/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.1	% 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	704	16.0	04/19/2024	ND	464	116	400	3.39	
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	04/19/2024	ND	192	96.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	185	92.3	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	70.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.5	% 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: 04/17/2024 Sampling Date: 04/16/2024

Reported: 04/23/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Shalyn Rodriguez

Project Location: COP - EDDY CO NM

Sample ID: BG - 2 (2'-3') (H242053-03)

Chloride, SM4500Cl-B Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 464 16.0 04/19/2024 ND 400 3.39 464 116

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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: 04/17/2024 Sampling Date: 04/16/2024

Reported: 04/23/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP - EDDY CO NM

Sample ID: BG - 2 (3'-4') (H242053-04)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2024	ND	2.13	106	2.00	3.48	
Toluene*	<0.050	0.050	04/20/2024	ND	2.07	103	2.00	3.66	
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.01	101	2.00	4.05	
Total Xylenes*	<0.150	0.150	04/20/2024	ND	5.93	98.9	6.00	3.91	
Total BTEX	<0.300	0.300	04/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	mg/kg		d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/19/2024	ND	464	116	400	3.39	
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	04/19/2024	ND	192	96.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	185	92.3	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	75.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.6	% 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: 04/17/2024 Sampling Date: 04/16/2024

Reported: 04/23/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact Project Number: 212C - MD - 02839 Sample Received By: Shalyn Rodriguez

Project Location: COP - EDDY CO NM

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	416	16.0	04/19/2024	ND	464	116	400	3.39	
Sample ID: BG - 2 (5'-6'	') (H242053-0	6)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/22/2024	ND	480	120	400	0.00	QR-03
Sample ID: BG - 2(6'-7'	') (H242053-0 mg	•	Analyza	d By: AC					
illoride, SM4300CI-B	ilig	/ kg	Allalyze	u by. AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	224	16.0	04/22/2024	ND	480	120	400	0.00	
Sample ID: BG - 2 (7'-8'	') (H242053-0	8)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	304	16.0	04/22/2024	ND	480	120	400	0.00	
Sample ID: BG - 2 (8'-9'	, ,	•							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	04/22/2024	ND	480	120	400	0.00	

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Celeg D. Keene



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 04/17/2024 Sampling Date: 04/16/2024

Reported: 04/23/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Shalyn Rodriguez

Project Location: COP - EDDY CO NM

Sample ID: BG - 2 (9'-10') (H242053-10)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/22/2024	ND	480	120	400	0.00	

Sample ID: BG - 2 (10'-11') (H242053-11)

Chloride, SM4500Cl-B	e, SM4500CI-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/22/2024	ND	480	120	400	0.00	

Sample ID: BG - 2 (11'-12') (H242053-12)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/22/2024	ND	480	120	400	0.00	

Sample ID: BG - 2 (12'-13') (H242053-13)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/22/2024	ND	480	120	400	0.00	

Sample ID: BG - 2 (13'-14') (H242053-14)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/22/2024	ND	480	120	400	0.00	

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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: 04/17/2024 Sampling Date: 04/16/2024

Reported: 04/23/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Shalyn Rodriguez

Project Location: COP - EDDY CO NM

Sample ID: BG - 2 (14'-15') (H242053-15)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/22/2024	ND	480	120	400	0.00	
Sample ID: BG - 2 (15'-1	l6') (H242053	3-16)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/22/2024	ND	480	120	400	0.00	

Sample ID: BG - 2 (16'-17') (H242053-17)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	04/22/2024	ND	480	120	400	0.00	

Sample ID: BG - 2 (17'-18') (H242053-18)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/22/2024	ND	480	120	400	0.00	

Sample ID: BG - 2 (18'-19') (H242053-19)

Chloride, SM4500Cl-B	` mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	04/22/2024	ND	480	120	400	0.00	

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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: 04/17/2024 Sampling Date: 04/16/2024

Reported: 04/23/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP - EDDY CO NM

Sample ID: BG - 2 (19'-20') (H242053-20)

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	04/20/2024	ND	2.13	106	2.00	3.48	
Toluene*	<0.050	0.050	04/20/2024	ND	2.07	103	2.00	3.66	
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.01	101	2.00	4.05	
Total Xylenes*	<0.150	0.150	04/20/2024	ND	5.93	98.9	6.00	3.91	
Total BTEX	<0.300	0.300	04/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.2	% 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	304	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	192	96.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	185	92.3	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	79.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.2	% 49.1-14	8						

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Notes and Definitions

QR-03 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.

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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CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: Relinquished By: Relinquished By: Colton Bickerstaff Lab I.D. BOOKER Sampler Name: Colton Bickerstaff Project Name: Way South State Com #001H FWKO Tank Battery Release hone #: City: Austin Project Manager: Sam Abbott Company Name: Tetra Tech roject Location: Eddy County, New Mexico roject #: ddress: 8911 Capital o Texas Hwy, Suite 2310 BG-2 (8'-9') BG-2 (6'-7') BG-2 (4'-5') BG-2 (2'-3') BG-2 (9'-10') BG-2 (7'-8') BG-2 (3'-4') BG-2 (5'-6') BG-2 (1'-2') BG-2 (0-1') 212C-MD-02839 (512)565-0190 Sample I.D. 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Observed Temp. °C Corrected Temp. °C Fax #: Project Owner: Date: 04/17/24 State: S 2 × Received By: 9 G G G G 00 (G)RAB OR (C)OMP 00 Zip: # CONTAINERS Sample Condition
Cool Intact
Very 1 Year
No No GROUNDWATER ConocoPhillips WASTEWATER MATRIX SLUDGE OTHER City: State: Fax #: Phone #: P.O. #: Address: EMAIL Attn: Sam Abbott Company: Tetra Tech CHECKED BY: (Initials) BILL TO 4/16/2024 Zip: 4/16/2024 4/16/2024 4/16/2024 DATE SAMPLING Rush, Nat.
 Verbal Result:
 □ Yes
 □ No
 Add'l Phone #:

 All Results are emailed. Please provide Email address:
 Sam.Abbott@tetratech.com AND Christian.Lull@tetratech.com
 REMARKS: rection Factor TIME #140 0°C 80 × TPH 8015M BTEX 8021B × Observed Temp. *C × × Chloride SM4500CI-B ANALYSIS REQUEST ON ON O

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Lab I.D. Relinquished By: Colton Bickerstaff elivered By: (Circle One) Sampler Name: Colton Bickerstaff Project Location: Eddy County, New Mexico Project Name: Way South State Com #001H FWKO Tank Battery Release Phone #: City: Austin Project Manager: Sam Abbott Company Name: Tetra Tech roject #: Address: 8911 Capital o Texas Hwy, Suite 2310 1340053 FORM-006 R 3.2 10/07/21 BG-2 (19'-20') BG-2 (17-18') BG-2 (16-17) BG-2 (14'-15') BG-2 (13'-14') BG-2 (12'-13') BG-2 (11'-12') BG-2 (10'-11') BG-2 (18'-19') BG-2 (15'-16') 212C-MD-02839 (512)565-0190 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Sample I.D. Observed Temp. °C Fax #: Project Owner: Date: 04/17/24 State: X Received By: G 9 G G G 9 G G Zip: Sample Condition
Cool Intact
Dies Bries
No No No ConocoPhillips ×× × × TRIX SLUDGE City: OTHER: Fax #: P.O. #: Phone #: Address: EMAIL Attn: Sam Abbott Company: Tetra Tech ACID/BASE CHECKED BY OTHER BILL TO Zip: 4/16/2024 4/16/2024 4/16/2024 4/16/2024 4/16/2024 4/16/2024 4/16/2024 4/16/2024 4/16/2024 4/16/2024 DATE Rush: WA REMARKS: TIME 8140 0°C TPH 8015M 600 × BTEX 8021B × ×× × × × ×× Chloride SM4500CI-B ved Temp. °C ANALYSIS REQUEST ON ON O cled Temp. "C



April 23, 2024

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: WAY SOUTH STATE COM #001H FWKO TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/17/24 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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: 04/17/2024 Sampling Date: 04/16/2024

Reported: 04/23/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Shalyn Rodriguez

Project Location: COP - EDDY CO NM

Sample ID: MW -1 (0-1') (H242055-01)

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	04/20/2024	ND	2.13	106	2.00	3.48	
Toluene*	<0.050	0.050	04/20/2024	ND	2.07	103	2.00	3.66	
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.01	101	2.00	4.05	
Total Xylenes*	<0.150	0.150	04/20/2024	ND	5.93	98.9	6.00	3.91	
Total BTEX	<0.300	0.300	04/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	192	96.1	200	7.38	
DRO >C10-C28*	24.9	10.0	04/19/2024	ND	185	92.3	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	72.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.4	% 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: 04/17/2024 Sampling Date: 04/16/2024

Reported: 04/23/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP - EDDY CO NM

Sample ID: MW -1 (3'-4') (H242055-02)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2024	ND	2.13	106	2.00	3.48	
Toluene*	<0.050	0.050	04/20/2024	ND	2.07	103	2.00	3.66	
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.01	101	2.00	4.05	
Total Xylenes*	<0.150	0.150	04/20/2024	ND	5.93	98.9	6.00	3.91	
Total BTEX	<0.300	0.300	04/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	192	96.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	185	92.3	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	68.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.5	% 49.1-14	0						

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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: 04/17/2024 Sampling Date: 04/16/2024

Reported: 04/23/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP - EDDY CO NM

Sample ID: MW -1 (5'-6') (H242055-03)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2024	ND	2.13	106	2.00	3.48	
Toluene*	<0.050	0.050	04/20/2024	ND	2.07	103	2.00	3.66	
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.01	101	2.00	4.05	
Total Xylenes*	<0.150	0.150	04/20/2024	ND	5.93	98.9	6.00	3.91	
Total BTEX	<0.300	0.300	04/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.3	% 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	240	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	192	96.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	185	92.3	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	81.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.9	% 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: 04/17/2024 Sampling Date: 04/16/2024

Reported: 04/23/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP - EDDY CO NM

Sample ID: MW -1 (7'-8') (H242055-04)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2024	ND	2.11	105	2.00	5.75	
Toluene*	<0.050	0.050	04/20/2024	ND	2.19	109	2.00	11.2	
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.28	114	2.00	11.5	
Total Xylenes*	<0.150	0.150	04/20/2024	ND	6.83	114	6.00	11.3	
Total BTEX	<0.300	0.300	04/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	176	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	192	96.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	185	92.3	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	71.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.5	% 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: 04/17/2024 Sampling Date: 04/16/2024

Reported: 04/23/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP - EDDY CO NM

mg/kg

Sample ID: MW -1 (9'-10') (H242055-05)

BTEX 8021B

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2024	ND	2.11	105	2.00	5.75	
Toluene*	<0.050	0.050	04/20/2024	ND	2.19	109	2.00	11.2	
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.28	114	2.00	11.5	
Total Xylenes*	<0.150	0.150	04/20/2024	ND	6.83	114	6.00	11.3	
Total BTEX	<0.300	0.300	04/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	544	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	192	96.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	185	92.3	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	72.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 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: 04/17/2024 Sampling Date: 04/16/2024

Reported: 04/23/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: COP - EDDY CO NM

Sample ID: MW -1 (14'-15') (H242055-06)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2024	ND	2.11	105	2.00	5.75	
Toluene*	<0.050	0.050	04/20/2024	ND	2.19	109	2.00	11.2	
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.28	114	2.00	11.5	
Total Xylenes*	<0.150	0.150	04/20/2024	ND	6.83	114	6.00	11.3	
Total BTEX	<0.300	0.300	04/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	992	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	192	96.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	185	92.3	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	73.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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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: 04/17/2024 Sampling Date: 04/16/2024

Reported: 04/23/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Shalyn Rodriguez

Analyzed By: 14

Project Location: COP - EDDY CO NM

Sample ID: MW -1 (19'-20') (H242055-07)

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	04/20/2024	ND	2.11	105	2.00	5.75	
Toluene*	<0.050	0.050	04/20/2024	ND	2.19	109	2.00	11.2	
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.28	114	2.00	11.5	
Total Xylenes*	<0.150	0.150	04/20/2024	ND	6.83	114	6.00	11.3	
Total BTEX	<0.300	0.300	04/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	496	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	192	96.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	185	92.3	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	72.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.7	% 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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Celeg D. Freene

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C Corrected Temp. °C

Sample Condition
Cool Intact
C

Rush MA

00

Observed Temp. 'C

O No O No

C'ted Temp. 'C

FORM-006 R 3.2 10/07/21

Relinquished By:

Relinquished By: Colton Bickerstaff

Date: 04/17/24



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech		B	BILL					VOID PROJECT
Project Manager: Sam Abbott		P.O.#:				-	-	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW
Address: 8911 Capital o Texas Hwy, Suite 2310		Company: Tetra Tech	tra Tech			_		
City: Austin State:	TX Zip:	Attn: Sam Abbott	bott			_		
Phone #: (512)565-0190 Fax #:		Address: EMAIL	AL.				_	
Project #: 212C-MD-02839 Project Owner:	ConocoPhillips	-	-			_	_	
Project Name: Way South State Com #001H FWKO Tank Battery Release	k Battery Release	State:	Zip:		_	_		
Project Location: Eddy County, New Mexico		2	197			_	В	
The state of the s		Phone #:				_	1-	
Sampler Name: Colton Bickerstaff		Fax#:				0.00	oc.	
TO LOUIS COREY	MATRIX	PRESERV.	SAMPLING	ING			50	
Sample D	RS TER				15M		SM4	
048006	(G)RAB OR (# CONTAINE GROUNDWA' WASTEWATE SOIL DIL BLUDGE	OTHER : ACID/BASE: CE / COOL OTHER :	DATE	TIME		BTEX 8	Chloride	
MW-1 (0-1')	G 1 X		4/16/2024		+	+	×	
3 MW-1 (3'-4')	G 1 X	X	4/16/2024		+	+	×	
3 MW-1 (5'-6')	G 1 X	X	4/16/2024		×	+	×	
4 MW-1 (7-8')	G 1 X	×	4/16/2024		×	+	×	
S MW-1 (9'-10')	G 1 X	×	4/16/2024		+	+	X	
6 MW-1 (14'-15')	G 1 X	X	4/16/2024		+	+	×	
7 MW-1 (19-20')	G 1 X	×	4/16/2024		+	+		
					+	+	Í	
					-	+	1	
					+	+		

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



April 24, 2024

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: WAY SOUTH STATE COM #001H FWKO TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/18/24 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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: 04/18/2024 Sampling Date: 04/17/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: COP - EDDY CO NM

mg/kg

Sample ID: MW -2 (0-1') (H242073-01)

BTEX 8021B

DILX 6021D	ilig	/ Ng	Allalyze	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	1.87	93.5	2.00	14.8	
Toluene*	<0.050	0.050	04/22/2024	ND	1.90	95.2	2.00	18.0	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.94	97.2	2.00	22.6	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.78	96.3	6.00	22.6	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 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	2680	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	193	96.5	200	4.87	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	180	90.0	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.2	% 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: 04/18/2024 Sampling Date: 04/17/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: COP - EDDY CO NM

Sample ID: MW -2 (3'-4') (H242073-02)

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	04/22/2024	ND	1.87	93.5	2.00	14.8	
Toluene*	<0.050	0.050	04/22/2024	ND	1.90	95.2	2.00	18.0	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.94	97.2	2.00	22.6	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.78	96.3	6.00	22.6	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 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	2320	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	193	96.5	200	4.87	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	180	90.0	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.9	% 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: 04/18/2024 Sampling Date: 04/17/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: COP - EDDY CO NM

Sample ID: MW -2 (5'-6') (H242073-03)

BTEX 8021B

DILX GOZID	ilig/	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	1.87	93.5	2.00	14.8	
Toluene*	<0.050	0.050	04/22/2024	ND	1.90	95.2	2.00	18.0	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.94	97.2	2.00	22.6	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.78	96.3	6.00	22.6	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 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	2280	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	193	96.5	200	4.87	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	180	90.0	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.1	% 49.1-14	8						

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Celey & Keens



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 04/18/2024 Sampling Date: 04/17/2024

Reported: Sampling Type: Soil 04/24/2024

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Project Location: COP - EDDY CO NM

Sample ID: MW -2 (7'-8') (H242073-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	1.87	93.5	2.00	14.8	
Toluene*	<0.050	0.050	04/22/2024	ND	1.90	95.2	2.00	18.0	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.94	97.2	2.00	22.6	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.78	96.3	6.00	22.6	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 %	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	2200	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	193	96.5	200	4.87	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	180	90.0	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	90.5 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.6 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: 04/18/2024 Sampling Date: 04/17/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: COP - EDDY CO NM

mg/kg

Sample ID: MW -2 (9'-10') (H242073-05)

BTEX 8021B

DIEX GOZID	9/	- Kg	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	1.87	93.5	2.00	14.8	
Toluene*	<0.050	0.050	04/22/2024	ND	1.90	95.2	2.00	18.0	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.94	97.2	2.00	22.6	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.78	96.3	6.00	22.6	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 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	1870	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	186	93.0	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	179	89.5	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 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: 04/18/2024 Sampling Date: 04/17/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: COP - EDDY CO NM

mg/kg

Sample ID: MW -2 (14'-15') (H242073-06)

BTEX 8021B

	9/	9	7111411720						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	1.87	93.5	2.00	14.8	
Toluene*	<0.050	0.050	04/22/2024	ND	1.90	95.2	2.00	18.0	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.94	97.2	2.00	22.6	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.78	96.3	6.00	22.6	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 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	1600	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	186	93.0	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	179	89.5	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 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: 04/18/2024 Sampling Date: 04/17/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: COP - EDDY CO NM

Sample ID: MW -2 (19'-20') (H242073-07)

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	04/22/2024	ND	1.87	93.5	2.00	14.8	
Toluene*	<0.050	0.050	04/22/2024	ND	1.90	95.2	2.00	18.0	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.94	97.2	2.00	22.6	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.78	96.3	6.00	22.6	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 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	688	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	186	93.0	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	179	89.5	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	89.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 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: 04/18/2024 Sampling Date: 04/17/2024

Reported: Sampling Type: Soil 04/24/2024

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Project Location: COP - EDDY CO NM

Sample ID: MW -3 (0-1') (H242073-08)

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	04/22/2024	ND	1.87	93.5	2.00	14.8	
Toluene*	<0.050	0.050	04/22/2024	ND	1.90	95.2	2.00	18.0	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.94	97.2	2.00	22.6	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.78	96.3	6.00	22.6	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	6 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	192	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	186	93.0	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	179	89.5	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	82.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.4	% 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: 04/18/2024 Sampling Date: 04/17/2024

Reported: Sampling Type: Soil 04/24/2024

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Project Location: COP - EDDY CO NM

Sample ID: MW -3 (3'-4') (H242073-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	1.87	93.5	2.00	14.8	
Toluene*	<0.050	0.050	04/22/2024	ND	1.90	95.2	2.00	18.0	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.94	97.2	2.00	22.6	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.78	96.3	6.00	22.6	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/22/2024	ND	480	120	400	0.00	QM-07
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	04/19/2024	ND	186	93.0	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	179	89.5	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 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: 04/18/2024 Sampling Date: 04/17/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: COP - EDDY CO NM

Sample ID: MW -3 (5'-6') (H242073-10)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2024	ND	2.24	112	2.00	4.53	
Toluene*	<0.050	0.050	04/20/2024	ND	2.18	109	2.00	4.66	
Ethylbenzene*	<0.050	0.050	04/20/2024	ND	2.14	107	2.00	5.04	
Total Xylenes*	<0.150	0.150	04/20/2024	ND	6.28	105	6.00	5.21	
Total BTEX	<0.300	0.300	04/20/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	186	93.0	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	179	89.5	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	95.1	% 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: 04/18/2024 Sampling Date: 04/17/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: COP - EDDY CO NM

Sample ID: MW -3 (7'-8') (H242073-11)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	2.24	112	2.00	4.53	
Toluene*	<0.050	0.050	04/22/2024	ND	2.18	109	2.00	4.66	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	2.14	107	2.00	5.04	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	6.28	105	6.00	5.21	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	186	93.0	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	179	89.5	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	90.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	6 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: 04/18/2024 Sampling Date: 04/17/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: COP - EDDY CO NM

Sample ID: MW -3 (9'-10') (H242073-12)

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	04/22/2024	ND	2.24	112	2.00	4.53	
Toluene*	<0.050	0.050	04/22/2024	ND	2.18	109	2.00	4.66	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	2.14	107	2.00	5.04	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	6.28	105	6.00	5.21	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.1	% 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	48.0	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	186	93.0	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	179	89.5	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 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: 04/18/2024 Sampling Date: 04/17/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: COP - EDDY CO NM

Sample ID: MW -3 (14'-15') (H242073-13)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	2.24	112	2.00	4.53	
Toluene*	<0.050	0.050	04/22/2024	ND	2.18	109	2.00	4.66	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	2.14	107	2.00	5.04	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	6.28	105	6.00	5.21	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.3	% 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	144	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	186	93.0	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	179	89.5	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	97.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 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: 04/18/2024 Sampling Date: 04/17/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM #001H FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: COP - EDDY CO NM

Sample ID: MW -3 (19'-20') (H242073-14)

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	04/22/2024	ND	2.24	112	2.00	4.53	
Toluene*	<0.050	0.050	04/22/2024	ND	2.18	109	2.00	4.66	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	2.14	107	2.00	5.04	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	6.28	105	6.00	5.21	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.1	% 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	368	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	186	93.0	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	179	89.5	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	97.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey & Keene



Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech	Project Manager: Sam Abbott	Address: 8911 C	City: Austin	Phone #:	Project #:	Project Name: W	Project Location	Sampler Name: (POR LAR USE DALY	Lab I.D.	0200	-	Ú-	J.V.	4	S	6	7	O pur Apper 1 - SLON aver	versi shall Cardinal be liable. Blades or successors arisin	Relinquished By	Relinquished By:	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	
	Sam Abbott	Address: 8911 Capital o Texas Hwy, Suite 2310		(512)565-0190	212C-MD-02839	Project Name: Way South State Com #001H FWKO Tank Battery Release	Project Location: Eddy County, New Mexico	Sampler Name: Colton Bickerstaff			Sample I.D.	MW-2 (0-1')	MW-2 (3'-4')	MW-2 (5'-6')	MW-2 (7'-8')	MW-2 (9'-10')	MW-2 (14'-15')	MW-2 (19'-20')	and the state of the state of	eerd shall Cardied) as labble for incidental or corresponded desegges, including without a misser, business transporters, bean of use, or bean of profess recovered by the submisser of the submi	Relinquished By: Colton Bickerstaff		e One) s - Other:	
(3/3) 393-2326 FAX (3/3) 393-24/6		uite 2310	State: TX	Fax#:	Project Owner:	001H FWKO Tank Bat	exico				i.b.								And Bollet wings have all the same and	s, including without limitation, business of services hermonder by Carolinal, re-	Date: 04/18/24	Date:	Observed Temp. "C	
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BILL TO		Company: Tetra Tech	Attn: Sam Abbott	MAIL		Zip:			-	SAME		4/17/2024	4/17/2024	4/17/2024	4/17/2024	4/17/2024	4/17/2024	4/17/2024	o politica Al chim	faries, sons or otherwise.	D.	1	CHECKED BY: (Initials)	',0
									2000	SAMPLING										and a second for the team and definition in a second flower or an analysis of the second flower or analysis of the second flower or an ana	Verbal Result: ☐ Yes ☐ No [Add'l Phone 8: All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com AND Christian.Luil@tetratech.com	REMARKS:	Turnuround Time:	Thermometer ID #140 Correction Factor 0°C
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CARDINALLaboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler - UPS - Bus - Other:	Delivered By: (Circle One)	Relinquished By:		Relinquished By:	event shall Cardinal be liable to affiliates or successors affiliates	PLEASE NOTE: Unbling and Day		17	A	N.	2		2	2	×	City: Austin City: Austin City: Austin City: Austin Phone #: (512)565-0190 Project #: 212C-MD-02839 Project Name: Way South State Co Project Location: Eddy County, No Sampler Name: Colton Bickerstaff Lab I.D. Sam	Company Name: Tetra Tech
s - Other:	e One)			Relinquished By: Colton Bickerstaff	eent wall Cestral be lieble for incidental or consequented damages, including without findicate, business interruptions, least of sea, or bear of profits incurrent by dans, to successors withing out of or included to the performance of services hereunder by Cestral, inguintiess of whether such claim is based upon any of the above stated massers or other	PLEASE NOTE: Liability and Dannages. Cardinal's liability and dismits exclusi		man of the control	MW-3 (19'-20')	MW-3 (14'-15')	MW-3 (9'-10')	MW-3 (7'-8')	MW-3 (5'-6')	MW-3 (3'-4')	MW-3 (0-1')	as Hwy, Su 1790 1790 1790 1790 1790 1790 1790 1790	
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Rush III Coo	Turnaruand Time:	REMARKS:	Christian.Llull@tetratech.com	Verbal Result: ☐ Yes ☐ No All Results are emailed. Please provide Email		ns including those for negligence and any other cause										LING	
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April 24, 2024

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: WAY SOUTH STATE COM#001H FWKO TANK BATTERY RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 04/18/24 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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: 04/18/2024 Sampling Date: 04/18/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM#001H FWKO T Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: COP - EDDY CO NM

mg/kg

Sample ID: BG - 3 (0-1') (H242074-01)

BTEX 8021B

	9,	9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	2.24	112	2.00	4.53	
Toluene*	<0.050	0.050	04/22/2024	ND	2.18	109	2.00	4.66	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	2.14	107	2.00	5.04	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	6.28	105	6.00	5.21	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.1	% 71.5-13	4						
Chloride, SM4500CI-B	ide, SM4500Cl-B mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	186	93.0	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	179	89.5	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	93.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 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: 04/18/2024 Sampling Date: 04/18/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM#001H FWKO T Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: COP - EDDY CO NM

Sample ID: BG - 3 (1'-2') (H242074-02)

BTEX 8021B

DILX GOZID	11197	ng .	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	2.24	112	2.00	4.53	
Toluene*	< 0.050	0.050	04/22/2024	ND	2.18	109	2.00	4.66	
Ethylbenzene*	< 0.050	0.050	04/22/2024	ND	2.14	107	2.00	5.04	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	6.28	105	6.00	5.21	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.4	% 71.5-13	4						
Chloride, SM4500Cl-B	loride, SM4500Cl-B mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	186	93.0	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	179	89.5	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	87.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.3	% 49.1-14	8						

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Celey & Keens



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 04/18/2024 Sampling Date: 04/18/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM#001H FWKO T Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Project Location: COP - EDDY CO NM

Sample ID: BG - 3 (2'-3') (H242074-03)

Chloride, SM4500Cl-B Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 1380 16.0 04/22/2024 ND 480 400 0.00 120

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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: 04/18/2024 Sampling Date: 04/18/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM#001H FWKO T Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: COP - EDDY CO NM

mg/kg

Sample ID: BG - 3 (3'-4') (H242074-04)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	2.24	112	2.00	4.53	
Toluene*	<0.050	0.050	04/22/2024	ND	2.18	109	2.00	4.66	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	2.14	107	2.00	5.04	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	6.28	105	6.00	5.21	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	04/22/2024	ND	480	120	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	04/19/2024	ND	186	93.0	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	179	89.5	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	92.4	% 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: 04/18/2024 Sampling Date: 04/18/2024

Reported: Sampling Type: Soil 04/24/2024

Project Name: WAY SOUTH STATE COM#001H FWKO T Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C - MD - 02839 Sample Received By:

Project Location: COP - EDDY CO NM

Sample ID: BG - 3 (4'-5') (H242074-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	04/22/2024	ND	480	120	400	0.00	
Sample ID: BG - 3	(5'-6') (H242074-0	6)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	04/22/2024	ND	480	120	400	0.00	
Sample ID: BG - 3	(6'-7') (H242074-0	7)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	04/22/2024	ND	480	120	400	0.00	
Sample ID: BG - 3	(7'-8') (H242074-0	8)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	04/22/2024	ND	480	120	400	0.00	
Sample ID: BG - 3	(8'-9') (H242074-0	9)							
Chloride, SM4500Cl-B	mg	-	Analyze	d By: HM					
Cilioriae, SM4500CI-B									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Chloride, SM4500Cl-B		/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	04/22/2024	ND	480	120	400	0.00	

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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: 04/18/2024 Sampling Date: 04/18/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM#001H FWKO T Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Project Location: COP - EDDY CO NM

Sample ID: BG - 3 (9'-10') (H242074-10)

Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	04/22/2024	ND	480	120	400	0.00	
Sample ID: BG - 3 (10'-1	L1') (H242074	-11)							
Chloride, SM4500CI-B	mg	/kg	Analyze	Analyzed By: HM					
Analyto	Pecult	Penorting Limit	Analyzed	Method Blank	RS	% Pecovery	True Value OC	PPD	Oualifier

Sample ID: BG - 3 (11'-12') (H242074-12)

Chloride

1230

16.0

Chloride, SM4500Cl-B mg/kg			Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	04/22/2024	ND	480	120	400	0.00	

ND

480

120

04/22/2024

Sample ID: BG - 3 (12'-13') (H242074-13)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	04/22/2024	ND	480	120	400	0.00	

Sample ID: BG - 3 (13'-14') (H242074-14)

Chloride, SM4500CI-B	J. J		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	04/22/2024	ND	480	120	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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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: 04/18/2024 Sampling Date: 04/18/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM#001H FWKO T Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Project Location: COP - EDDY CO NM

Sample ID: BG - 3 (14'-15') (H242074-15)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	04/22/2024	ND	464	116	400	3.39	
Sample ID: BG - 3 (15'-	L6') (H242074	-16)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	04/22/2024	ND	464	116	400	3.39	
Sample ID: BG - 3 (16'-:	, ,	-17) /kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	04/22/2024	ND	464	116	400	3.39	
Sample ID: BG - 3 (17'-:	L8') (H242074	- 18)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	04/22/2024	ND	464	116	400	3.39	
Sample ID: BG - 3 (18'-:	L9') (H242074	l-19)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	04/22/2024	ND	464	116	400	3.39	

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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: 04/18/2024 Sampling Date: 04/18/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM#001H FWKO T Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Project Location: COP - EDDY CO NM

Sample ID: BG - 3 (19'-20') (H242074-20)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/22/2024	ND	464	116	400	3.39	

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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: 04/18/2024 Sampling Date: 04/18/2024

Reported: Sampling Type: Soil 04/24/2024

Project Name: WAY SOUTH STATE COM#001H FWKO T Sampling Condition: Cool & Intact Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Project Location: COP - EDDY CO NM

Sample ID: BG - 4 (0-1') (H242074-21)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	2.24	112	2.00	4.53	
Toluene*	<0.050	0.050	04/22/2024	ND	2.18	109	2.00	4.66	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	2.14	107	2.00	5.04	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	6.28	105	6.00	5.21	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	04/22/2024	ND	464	116	400	3.39	
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	04/19/2024	ND	186	93.0	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	179	89.5	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	96.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 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: 04/18/2024 Sampling Date: 04/18/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM#001H FWKO T Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: COP - EDDY CO NM

Sample ID: BG - 4 (1'-2') (H242074-22)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	2.24	112	2.00	4.53	
Toluene*	<0.050	0.050	04/22/2024	ND	2.18	109	2.00	4.66	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	2.14	107	2.00	5.04	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	6.28	105	6.00	5.21	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.3	% 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	1960	16.0	04/22/2024	ND	464	116	400	3.39	
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	04/19/2024	ND	186	93.0	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	179	89.5	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.7	% 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: 04/18/2024 Sampling Date: 04/18/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM#001H FWKO T Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Project Location: COP - EDDY CO NM

Sample ID: BG - 4 (2'-3') (H242074-23)

Chloride, SM4500Cl-B Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 2400 16.0 04/22/2024 ND 400 3.39 464 116

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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: 04/18/2024 Sampling Date: 04/18/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM#001H FWKO T Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: COP - EDDY CO NM

mg/kg

Sample ID: BG - 4 (3'-4') (H242074-24)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	2.24	112	2.00	4.53	
Toluene*	<0.050	0.050	04/22/2024	ND	2.18	109	2.00	4.66	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	2.14	107	2.00	5.04	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	6.28	105	6.00	5.21	
Total BTEX	<0.300	0.300	04/22/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.0	% 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	2600	16.0	04/22/2024	ND	464	116	400	3.39	
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	04/19/2024	ND	186	93.0	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	179	89.5	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	84.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.0	% 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: 04/18/2024 Sampling Date: 04/18/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM#001H FWKO T Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Project Location: COP - EDDY CO NM

Sample ID: BG - 4 (4'-5') (H242074-25)

mg	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2520	16.0	04/22/2024	ND	464	116	400	3.39	
[5'-6') (H242074-20	6)							
mg,	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2760	16.0	04/22/2024	ND	464	116	400	3.39	
	•	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2960	16.0	04/22/2024	ND	464	116	400	3.39	
(7'-8') (H242074-28	3)							
mg,	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1090	16.0	04/22/2024	ND	464	116	400	3.39	
8'-9') (H242074-29	9)							
	•	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Result 2520 (5'-6') (H242074-26 mg, Result 2760 (6'-7') (H242074-26 mg, Result 2960 (7'-8') (H242074-26 mg, Result 1090	2520 16.0 25'-6') (H242074-26) mg/kg Result Reporting Limit 2760 16.0 26'-7') (H242074-27) mg/kg Result Reporting Limit 2960 16.0 27'-8') (H242074-28) mg/kg Result Reporting Limit	Result Reporting Limit Analyzed 2520 16.0 04/22/2024 25'-6') (H242074-26) mg/kg Analyze Result Reporting Limit Analyzed 2760 16.0 04/22/2024 26'-7') (H242074-27) mg/kg Analyze Result Reporting Limit Analyzed 2960 16.0 04/22/2024 27'-8') (H242074-28) mg/kg Analyze Result Reporting Limit Analyzed 2960 16.0 04/22/2024 27'-8') (H242074-28) mg/kg Analyze Result Reporting Limit Analyzed 1090 16.0 04/22/2024	Result Reporting Limit Analyzed Method Blank 2520 16.0 04/22/2024 ND (5'-6') (H242074-26)	Result Reporting Limit Analyzed Method Blank BS 2520 16.0 04/22/2024 ND 464 (5'-6') (H242074-26) mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS 2760 16.0 04/22/2024 ND 464 (6'-7') (H242074-27) mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS 2960 16.0 04/22/2024 ND 464 (7'-8') (H242074-28) mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS 1090 16.0 04/22/2024 ND 464	Result Reporting Limit Analyzed Method Blank BS % Recovery 2520 16.0 04/22/2024 ND 464 116 5'-6') (H242074-26) mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery 2760 16.0 04/22/2024 ND 464 116 6'-7') (H242074-27) mg/kg Analyzed By: AC Result Reporting Limit Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery 2960 16.0 04/22/2024 ND 464 116 7'-8') (H242074-28) mg/kg Analyzed By: AC Result Reporting Limit Analyzed By: AC	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 2520 16.0 04/22/2024 ND 464 116 400 5'-6') (H242074-26) mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 2760 16.0 04/22/2024 ND 464 116 400 6'-7') (H242074-27) mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 2960 16.0 04/22/2024 ND 464 116 400 7'-8') (H242074-28) mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 2960 16.0 04/22/2024 ND 464 116 400 7'-8') (H242074-28) mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 1090 16.0 04/22/2024 ND 464 116 400	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 2520 16.0 04/22/2024 ND 464 116 400 3.39 [5'-6') (H242074-26) mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 2760 16.0 04/22/2024 ND 464 116 400 3.39 [6'-7') (H242074-27) mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 2960 16.0 04/22/2024 ND 464 116 400 3.39 [7'-8') (H242074-28) mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 464 116 400 3.39 [7'-8') (H242074-28) mg/kg Analyzed By: AC

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TETRA TECH SAM ABBOTT

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 04/18/2024 Sampling Date: 04/18/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM#001H FWKO T Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Project Location: COP - EDDY CO NM

Sample ID: BG - 4 (9'-10') (H242074-30)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	1040	16.0	04/22/2024	ND	464	116	400	3.39	
Sample ID: BG - 4 (10'-11') (H242074	-31)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	1040	16.0	04/22/2024	ND	464	116	400	3.39	
Sample ID: BG - 4 (11'-12') (H242074	l-32)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	832	16.0	04/22/2024	ND	464	116	400	3.39	
Sample ID: BG - 4 (12'-13') (H242074	l-33)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	704	16.0	04/22/2024	ND	464	116	400	3.39	
Sample ID: BG - 4 (13'-14') (H242074	l-34)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analista	Demile	Danielina Linit	A l	Mathad Dlad.	DC	0/ D	T 1/-l OC	DDD	01:6:-

Chloride, SM4500Cl-B mg/kg		Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	04/22/2024	ND	464	116	400	3.39	

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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: 04/18/2024 Sampling Date: 04/18/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM#001H FWKO T Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Project Location: COP - EDDY CO NM

Sample ID: BG - 4 (14'-15') (H242074-35)

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	04/23/2024	ND	464	116	400	3.39	
Sample ID: BG - 4 (15'-16')	(H242074	-36)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	04/23/2024	ND	464	116	400	3.39	
Sample ID: BG - 4 (16'-17')	(H242074	-37)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	04/23/2024	ND	464	116	400	3.39	
Sample ID: BG - 4 (17'-18')	(H242074	-38)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	04/23/2024	ND	464	116	400	3.39	
Sample ID: BG - 4 (18'-19')	(H242074	-39)							
Chloride, SM4500Cl-B	-	-	Analyza	d By: HM					
	mg	/ Kg	Allalyze	u by. 111-1					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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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: 04/18/2024 Sampling Date: 04/18/2024

Reported: 04/24/2024 Sampling Type: Soil

Project Name: WAY SOUTH STATE COM#001H FWKO T Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839 Sample Received By: Tamara Oldaker

Project Location: COP - EDDY CO NM

Sample ID: BG - 4 (19'-20') (H242074-40)

Chloride, SM4500Cl-B Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 560 16.0 04/23/2024 ND 400 3.39 464 116

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Celey D. Kune



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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006	Sampler - UPS - Pus - Other	allyaned By: ICircle	Relinquished By:		elinquished By:	Work shall Cardinal be hable to (Titales or successors arising	LEASE NOTE: LINDRY and Da	2	×	2	6	n	4	W	W	-	Lab I.D.	SOR LAB DISC ONLY	Sampler Name:	Project I postion	Project Name: W	Project #:	Phone #:	City: Austin	Address: 8911 Capital a Toron	Project Manager Service and Jech
FORM-006 R 3.2 10/07/21	s - Other:				Relinquished By: Colton Bickerstaff	event shall Cardinal be lable for involental or consequental damages. affiliates or successions arising out of or related to the performance of	BU-3 (9-10')	BG-3 (8-9')	BG-3 (7'-8')	BG-3 (6'-7')	BG-3 (5'-6')	BG-3 (4'-5')	BG-3 (3'-4")	BG-3 (2'-3')	BG-3 (1'-2')	BG-3 (0-1')	Sample I.D.	FOR USE ONLY	Sampler Name: College Bickground	Eddy County New	Vay South State Com	212C-MD-02836	(512)565-0190	City: Austin	anital a Town U	s ieua iech
	Corrected Temp. "C	Time:	Date:	Time: 1325	: Colton Bickerstaff Date: 04/18/24 Received By	es, including without lenhalten, business interruptions, loss of use, or loss of points of services including without lenhalten, business interruptions, loss of use, or loss of points of services included by the contract of services in the services in th	81										le I.D.		Mexico	TOO IN TWANT I HANK DE	Project Name: Way South State Com #001H ENVO Took Page 1	Police P.	Fav #-	2		
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	CHEC		6	1	A table on	the subsidier	×	X	×	×	×	× ;	×	X :	X		ACID/BASE: PRESENT OTHER: PRESENT OT	43	71:			Address: EMAIL	Sam J	pany:	开	
	(Initials)	1		X	is based upon any of the above stable reasons or otherwise.	w analyses. All chains lartes.	4/18/2024	4/18/2024	4/18/2024	4/18/2024	4/18/2024	4/18/2024	4/18/2024	4/18/2024	4/18/2024	+	DA			Zip:		MAIL	Attn: Sam Abbott	Company: Tetra Tech		BILL TO
	Turescound Time: Stance Rush sale: Coc Thermometer ID \$140 Correction Factor 0°C		REMARKS:	All Besults are emailed. Please provide Email address: Sam.Abbott@tetratech.com AND Christian.Lluil@tetratech.com	Verhal Bassill	ms including those by							1	T	1	+	SAMPLING THE TIME									,
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Page 19 of 22

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

earst will Conduct to label for includent and the includent and any and are in the includent and are included and are	eart shill Control to liable to incleaned or consequent damages, reckeling settinal installation between control and the incleaned or consequent damages, reckeling settinal installation of succession arriving and or situated to be performed and services became any administration of settinal supportions of services became any of the above dates install installation and of the above dates in the above	went shall Cardinal to labe for incidental Millates of succession arising ad of or rel	event shall Cardinal be liable for incidental	NEASE WOTE Labely and Demayor, Card	50 BG-3		[7] BG-3	10 BG-3	S BG-3		3 BG-3	BG-3	BG-3	Havaory	Sampler Name: Colton Bickerstaff	Project Location: Eddy County, New Mexico	Project Name: Way South State Com #001H FWKO Tank Battery Release	Project #: 212C		ti	Address: 8911 Capital o Texas Hwy, Suite 2310	Project Manager: Sam Abbott	Company Name: Total
Delivered By: (Circle One) Sampler - UPS - Bus - Other:			Bickerstaff	lages. Cardinal's liability and clarify and in incidental or consequental diamenes.	BG-3 (18-19)	BG-3 (17-18')	BG-3 (16'-17')	BG-3 (15'-16')	BG-3 (14'-15')	BG-3 (13'-14')	BG-3 (12'-13')	BG-3 (11'-12')	BG-3 (10'-11')	Sample I.D.	Bickerstaff	County, New M	th State Com#	212C-MD-02839	(512)565-0190		Texas Hwy, St	Abbott	101 East M (575) 393
Observed Temp. °C S	Date: Time:	Time:/325	services hereunder by Cardinal, reg	are sensely for any claim, arising whicher										I.D.		exico	001H FWKO Tank Ba	Project Owner:	Fax#:	State: TX	uite 2310		101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
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(Initials)	. \$	8/	ted (seasons	C and and an	Î			×			×	×	×	OTHER N		*			Address: EMAIL	Attn: Sam Abbott	Company: Tetra Tech		I
BY:	1	K	Shrinke	X 4/18/2024	4/18/2024	4/18/2024	4/18/2024	4/18/2024	4/18/2024	4/18/2024	4/18/2024	4/18/2024	4/18/2024	SAN			Zip:			off	ra Tech	BILL TO	
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		Add*I Phone #: il address: Sam.Abbott@tetratech.com AND	BAGOSI DEB	П	1	1	Ť	T	T	T	T	Ť	T										
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Page 20 of 22



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 383-2326 FAX (575) 393-2476

Company Name: Tetra Tech	etra Tech					1					ė į	B	BILL TO]	1	1	ANALY	LYSIS	ISIS REQUEST	UES1	
Project Manager: Sam Abbott	am Abbott									P.O. #:	35											
Address: 8911 Cap	Address: 8911 Capital o Texas Hwy, Suite 2310	te 2310								Com	pan	y: Te	Company: Tetra Tech									
City: Austin		State: TX	(Zip:	p:						Attn	San	Attn: Sam Abbott	bott									
Phone #: ((512)565-0190	Fax #:								Add	ess	Address: EMAIL	AL.									
Project #: 2	212C-MD-02839	Project Owner:				ono	ConocoPhillips	hill		City:		- 1										
Project Name: Way	Project Name: Way South State Com #001H FWKO Tank Battery Release	01H FWKO Tank Bal	ttery	Rele	ase					State:			Zip:				В					
Project Location: E	Project Location: Eddy County, New Mexico	xico				П				Phor	Phone #:						CI-					
Sampler Name: Colton Bickerstaff	Iton Bickerstaff			- 1		1	-	- 1	_	Fax #:	*	-					000					
POR LAB USE CHLY			\dashv	\dashv	Н	Н	MA	MATRIX		PF	PRESERV	RV.	SAMPLING	ING			450					
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the land	Sample I.D.	Ė)RAB OR (C)	CONTAINERS	ROUNDWATE	ASTEWATER	DIL	L	UDGE	HER :	E/COOL T	HER:	2		PH 801	TEX 80	hloride					
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ا لاي	BG-4 (1'-2")		G	_		-	×			-	×		4/18/2024		×	×	×					
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260 1	BG-4 (5'-6')		9	_		Н	×			Н	×		4/18/2024				×					
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7	BG-4 (7'-8')		G	_		Н	X			Н	×		4/18/2024				×					
39 E	BG-4 (8'-9')		G	1		-	X			-	×		4/18/2024				×					
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PLBASE NOTE: Lability and Dama; event shall Condinat be liable for it affiliates or successions arising ou	TABLES FOTTS: Libably and Champan, Charister's handles part offerts anches memory for you down prevention toward not and the limited to the mount yate by the destroy to see a ready of all charister be labely in the individual for companyated interpret, heading familiary, handles interpret, and of any, of their labely handles in the prevention of the pr	on remay for any claim arraing when including without limitation, busines services hereunder by Cardinal, no	as Intern	ptors, of what	bas of	ch cha	los o	profits and the party	and of	the abo	De cho	clor tre ubsidiar d maso	analyses. All chime its. na or otherwise.	including those for negligence and any other cause	-	e and any d		distance du	di be deeme	nd wasvend us	niess made	shall be deemed waked unless made in writing and received by Cantinal within 30 days after
Relinquished By: Colton Bickerstaff	olton Bickerstaff	Date: 04/18/24	Re	Received By	ed B	5					9	1		Verbal Result:		Yes [□ No	de Franci	Add'l Phone #:	hone #:	Ahhotte	Materia
		SCA Senia	7		1.	1	11	100	1	1	All I		No.	gell results are emailed, ir lease provide Email address: Sam_Abbott@retratech.com AND Christian_Liuli@tetratech.com	@tetra	tech.con	se provi	Ide Email	address	s: Sam.	ADDOTT	grerrate
Relinquished By:		Date:	Re	Received By:	ed B	×	1			-		1	1	REMARKS:								
		Time:	_										1									
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	- Other:	Observed Temp. "C Corrected Temp. "C	3	0		Coo	Sample Condition Cool Infact	act of	10		ç	(Initials)	BY:	Turnaround Time:		1 #	Bacteria (ordy) Observed Temp. 'C	Bacteria (only) Sample erved Temp. 'C	e Candillon			
		14					0 ** 0 **	8			1	1	1	Thermometer ID #140 Correction Factor 0°C	8140					West Ves	W Yes	morted Temp
																				-	1000	Marie Marie



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Relinquished By: Circle One Sampler - UPS - Bus - Other	Relinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Ot	shed By:	Relinquished By:			Relinquished By: Colton Bickerstaff	Cardinal to liable for incident successors arising out of or	CEASE WORE Usually and Gernages Car		BUS	D BU-	No Bu-	TOR BOY			DO DU-		400	Sampler Name: Colton Bickerstaff	Project Location: Eddy County, New Mexico	ect Name: Way So	Project #: 2120		City: Austin	Address: 8911 Capital o Texas Hwy, Suite 2310	Project Manager: Sam Abbott	Company Name: Tetra Tech
		her				n Bickerstaff	al or consequental damage related to the performance	DU-4 (19-20)	DC 4 (10-19)	BC 4 (17-18)	BG-4 (16-17)	BU-4 (15-16)	BG-4 (14-15')	BG-4 (13'-14')	BG-4 (12'-13')	DG-4(11-12)	BG-4 (10-11')	Sample I.D.	Bickerstaff	y County, New I	outh State Com	212C-MD-02839	(512)565-0190		o Texas Hwy, S	Abbott	a Tech
	The state of the s	Observed Temp. "C	Time:	Date:	Time:	Date: 04/18/24	erent half chaird to liabe for rectainful or consequented disruppes, rectaining without brindom; business intermediates, bus on a consequence or recent year on the complete, efficient or exconsisses which produce the consequence of the consequence of which the professional section is the professional section in the professional section in the professional section in the professional section is the consequence of the consequence	Single deptility and planet, explanes reproduct for any claim, ensure any										e I.D.		Mexico	Project Name: Way South State Com #001H FWKO Tank Battery Release	Project Owner:	Fax#:	State:	Suite 2310		
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April 29, 2024

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND, TX 79701

RE: WAY SOUTH STATE COM#001H FWKO TANK BATTERY RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 04/17/24 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Project: WAY SOUTH STATE COM#001H FV

Reported:

 $901\ \text{WEST}\ \text{WALL}\ \text{STREET}$, STE 100

Project Number: 212C - MD - 02839

29-Apr-24 16:18

MIDLAND TX, 79701

Project Manager: SAM ABBOTT

Fax To: (432) 682-3946

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW - 1	H242056-01	Water	17-Apr-24 00:00	17-Apr-24 15:25

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

TETRA TECH

 $901\ \text{WEST}$ WALL STREET , STE 100

MIDLAND TX, 79701

Project: WAY SOUTH STATE COM#001H FV

Project Number: 212C - MD - 02839

Project Manager: SAM ABBOTT Fax To: (432) 682-3946 Reported: 29-Apr-24 16:18

MW - 1 H242056-01 (Water)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardi	nal Laborato	ories					
Inorganic Compounds									
Alkalinity, Bicarbonate	390	5.00	mg/L	1	4041619	HM	19-Apr-24	310.1	
Alkalinity, Carbonate	<1.00	1.00	mg/L	1	4041619	HM	19-Apr-24	310.1	
Chloride*	12400	4.00	mg/L	1	4041702	AC	19-Apr-24	4500-Cl-B	
Conductivity*	39500	1.00	umhos/cm @ 25°C	1	4041825	НМ	18-Apr-24	120.1	
pH*	6.82	0.100	pH Units	1	4041825	HM	18-Apr-24	150.1	
Temperature °C	18.1		pH Units	1	4041825	HM	18-Apr-24	150.1	
Sulfate*	3920	1000	mg/L	100	4041703	HM	18-Apr-24	375.4	
TDS*	27300	5.00	mg/L	1	4041752	AC	23-Apr-24	160.1	
Alkalinity, Total*	320	4.00	mg/L	1	4041619	HM	19-Apr-24	310.1	
Petroleum Hydrocarbons by G	C FID								
GRO C6-C10*	<1.00	1.00	mg/L	0.1	4041934	MS	22-Apr-24	8015B	
DRO >C10-C28*	<1.00	1.00	mg/L	0.1	4041934	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<1.00	1.00	mg/L	0.1	4041934	MS	22-Apr-24	8015B	
Surrogate: 1-Chlorooctane		87.7 %	6 71.5-1	140	4041934	MS	22-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane		81.4 %	60.4-1	151	4041934	MS	22-Apr-24	8015B	
Volatile Organic Compounds b	y EPA Method 8260)B							
Benzene*	< 0.0005	0.0005	mg/L	1	4041824	MS	18-Apr-24	8260B	
Toluene*	< 0.0005	0.0005	mg/L	1	4041824	MS	18-Apr-24	8260B	
Ethylbenzene*	< 0.0005	0.0005	mg/L	1	4041824	MS	18-Apr-24	8260B	
Total Xylenes*	< 0.001	0.001	mg/L	1	4041824	MS	18-Apr-24	8260B	
Total BTEX	< 0.003	0.003	mg/L	1	4041824	MS	18-Apr-24	8260B	
Surrogate: Dibromofluoromethane		115 %	82.4-1	141	4041824	MS	18-Apr-24	8260B	
Surrogate: Toluene-d8		91.5 %	87.1-	110	4041824	MS	18-Apr-24	8260B	
Surrogate: 4-Bromofluorobenzene		84.9 %	6 76.4-	114	4041824	MS	18-Apr-24	8260B	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: WAY SOUTH STATE COM#001H FV

Project Number: 212C - MD - 02839

Project Manager: SAM ABBOTT

Fax To: (432) 682-3946

Reported: 29-Apr-24 16:18

MW - 1

H242056-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes

Green Analytical Laboratories

Total Recoverable Metals b	y ICP (E200.7)							
Calcium*	1490	5.00	mg/L	25	B240950	AWG	23-Apr-24	EPA200.7
Magnesium*	1350	2.50	mg/L	25	B240950	AWG	23-Apr-24	EPA200.7
Potassium*	62.4	25.0	mg/L	25	B240950	AWG	23-Apr-24	EPA200.7
Sodium*	6020	25.0	mg/L	25	B240950	AWG	23-Apr-24	EPA200.7
Dissolved Metals by ICP								
Iron*	<1.25	1.25	mg/L	25	B240987	AWG	25-Apr-24	EPA200.7
Manganese*	< 0.500	0.500	mg/L	25	B240987	AWG	25-Apr-24	EPA200.7

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Celey D. Keens



Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: WAY SOUTH STATE COM#001H FV

Project Number: 212C - MD - 02839

Project Manager: SAM ABBOTT

Fax To: (432) 682-3946

Reported: 29-Apr-24 16:18

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4041619 - General Prep - Wet Chem										
Blank (4041619-BLK1)				Prepared &	: Analyzed:	16-Apr-24				
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							
LCS (4041619-BS1)				Prepared &	Analyzed:	16-Apr-24				
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	292	12.5	mg/L				80-120			
Alkalinity, Total	240	10.0	mg/L	250		96.0	80-120			
LCS Dup (4041619-BSD1)				Prepared &	Analyzed:	16-Apr-24				
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	4.18	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	4.08	20	
Batch 4041702 - General Prep - Wet Chem										
Blank (4041702-BLK1)				Prepared: 1	7-Apr-24 A	Analyzed: 19	9-Apr-24			
Chloride	ND	4.00	mg/L							
LCS (4041702-BS1)				Prepared: 1	7-Apr-24 A	Analyzed: 19	9-Apr-24			
Chloride	104	4.00	mg/L	100		104	80-120			
LCS Dup (4041702-BSD1)				Prepared: 1	7-Apr-24 A	Analyzed: 19	9-Apr-24			
Chloride	108	4.00	mg/L	100		108	80-120	3.77	20	
Batch 4041703 - General Prep - Wet Chem										
Blank (4041703-BLK1)				Prepared &	: Analyzed:	18-Apr-24				

Cardinal Laboratories

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Celey D. Keene



Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: WAY SOUTH STATE COM#001H FV

Project Number: 212C - MD - 02839

Project Manager: SAM ABBOTT

Fax To: (432) 682-3946

Reported: 29-Apr-24 16:18

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4041703 - General Prep - Wet Chem										
LCS (4041703-BS1)				Prepared &	Analyzed:	18-Apr-24				
Sulfate	18.2	10.0	mg/L	20.0		91.2	80-120			
LCS Dup (4041703-BSD1)				Prepared &	: Analyzed:	18-Apr-24				
Sulfate	18.0	10.0	mg/L	20.0	·	90.0	80-120	1.32	20	
Batch 4041752 - Filtration										
Blank (4041752-BLK1)				Prepared: 1	8-Apr-24 A	analyzed: 2	2-Apr-24			
TDS	ND	5.00	mg/L							
LCS (4041752-BS1)				Prepared: 1	8-Apr-24 A	analyzed: 2	2-Apr-24			
TDS	806		mg/L	1000		80.6	80-120			
Duplicate (4041752-DUP1)	Sou	rce: H241997	'-01	Prepared: 1	8-Apr-24 A	analyzed: 2	2-Apr-24			
TDS	1130	5.00	mg/L		1190			5.26	20	
Batch 4041825 - General Prep - Wet Chem										
LCS (4041825-BS1)				Prepared &	Analyzed:	18-Apr-24				
Conductivity	50300		uS/cm	50000		101	80-120			
pH	7.04		pH Units	7.00		101	90-110			
Duplicate (4041825-DUP1)	Sou	rce: H242043	-01	Prepared &	Analyzed:	18-Apr-24				
pH	7.77	0.100	pH Units		7.71			0.775	20	
Conductivity	1400	1.00 1	umhos/cm @ 25°C	!	1410			0.642	20	
Temperature °C	18.6		pH Units		18.6			0.00	200	

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Celey D. Keine



%REC

60.4-151

Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$ WALL STREET , STE 100

MIDLAND TX, 79701

Surrogate: 1-Chlorooctadecane

Project: WAY SOUTH STATE COM#001H FV

Source

Project Number: 212C - MD - 02839

Spike

5.00

Project Manager: SAM ABBOTT

Fax To: (432) 682-3946

Reported: 29-Apr-24 16:18

RPD

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

5.61

		1 0		1						
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4041934 - General Prep - Organics										
Blank (4041934-BLK1)				Prepared &	Analyzed:	22-Apr-24	ļ			
GRO C6-C10	ND	1.00	mg/L							
DRO >C10-C28	ND	1.00	mg/L							
EXT DRO >C28-C36	ND	1.00	mg/L							
Surrogate: 1-Chlorooctane	4.40		mg/L	5.00		88.0	71.5-140			
Surrogate: 1-Chlorooctadecane	4.42		mg/L	5.00		88.5	60.4-151			
LCS (4041934-BS1)				Prepared &	Analyzed:	22-Apr-24				
GRO C6-C10	49.2	1.00	mg/L	50.0		98.4	72.6-121			
DRO >C10-C28	49.3	1.00	mg/L	50.0		98.6	76-119			
Surrogate: 1-Chlorooctane	5.15		mg/L	5.00		103	71.5-140			
Surrogate: 1-Chlorooctadecane	5.74		mg/L	5.00		115	60.4-151			
LCS Dup (4041934-BSD1)				Prepared &	z Analyzed:	22-Apr-24				
GRO C6-C10	49.7	1.00	mg/L	50.0		99.4	72.6-121	0.987	16.8	
DRO >C10-C28	48.9	1.00	mg/L	50.0		97.8	76-119	0.735	20.4	
Surrogate: 1-Chlorooctane	5.21		mg/L	5.00		104	71.5-140			

mg/L

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Celeg D. Keene



%REC

94.2

76.4-114

Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Ethylbenzene

Total Xylenes

Project: WAY SOUTH STATE COM#001H FV

Source

Project Number: 212C - MD - 02839

Project Manager: SAM ABBOTT

Fax To: (432) 682-3946

Spike

Reported: 29-Apr-24 16:18

RPD

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4041824 - Volatiles										
Blank (4041824-BLK1)				Prepared &	k Analyzed:	18-Apr-24				
Benzene	ND	0.0005	mg/L							
Toluene	ND	0.0005	mg/L							

mg/L

mg/L

Total BTEX	ND	0.003	mg/L			
Surrogate: Dibromofluoromethane	0.0538		mg/L	0.0500	108	82.4-141
Surrogate: Toluene-d8	0.0467		mg/L	0.0500	93.3	87.1-110
Surrogate: 4-Bromofluorobenzene	0.0445		mg/L	0.0500	89.0	76 4-114

ND

ND

Reporting

0.0005

0.001

LCS (4041824-BS1)				Prepared & Ana	alyzed: 18-Apr-24	
Benzene	0.018	0.0005	mg/L	0.0200	89.1	85.9-114
Toluene	0.018	0.0005	mg/L	0.0200	88.2	78.8-121
Ethylbenzene	0.019	0.0005	mg/L	0.0200	94.3	81.8-127
m+p - Xylene	0.040	0.001	mg/L	0.0400	99.0	72.4-134
Total Xylenes	0.058	0.001	mg/L	0.0600	97.0	74.3-134

o-Xylene	0.019	0.0005	mg/L	0.0200	93.1	76.2-135
Surrogate: Dibromofluoromethane	0.0553		mg/L	0.0500	111	82.4-141
Surrogate: Toluene-d8	0.0469		mg/L	0.0500	93.9	87.1-110
Surrogate: 4-Bromofluorobenzene	0.0473		mg/L	0.0500	94 6	76 4-114

0.0471

Surrogate: 4-Bromofluorobenzene	0.0473		mg/L	0.0500	94.6	76.4-114			
LCS Dup (4041824-BSD1)				Prepared & Ana	lyzed: 18-Apr-24				
Benzene	0.018	0.0005	mg/L	0.0200	90.9	85.9-114	2.00	4.14	
Toluene	0.017	0.0005	mg/L	0.0200	86.8	78.8-121	1.54	5.73	
Ethylbenzene	0.019	0.0005	mg/L	0.0200	93.0	81.8-127	1.44	4.95	
m+p - Xylene	0.039	0.001	mg/L	0.0400	98.6	72.4-134	0.430	5.81	
Total Xylenes	0.058	0.001	mg/L	0.0600	96.5	74.3-134	0.551	5.84	
o-Xylene	0.018	0.0005	mg/L	0.0200	92.3	76.2-135	0.809	6.32	
Surrogate: Dibromofluoromethane	0.0546		mg/L	0.0500	109	82.4-141			
Surrogate: Toluene-d8	0.0460		mg/L	0.0500	92.0	87.1-110			

Cardinal Laboratories *=Accredited Analyte

mg/L

0.0500

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Celey D. Keens

Surrogate: 4-Bromofluorobenzene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: WAY SOUTH STATE COM#001H FV

Project Number: 212C - MD - 02839

Project Manager: SAM ABBOTT

Fax To: (432) 682-3946

Reported: 29-Apr-24 16:18

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (B240950-BLK1)				Prepared: 19-Ap	r-24 Analyzed: 2	3-Apr-24			
Sodium	ND	1.00	mg/L						
Calcium	ND	0.200	mg/L						
Magnesium	ND	0.100	mg/L						
Potassium	ND	1.00	mg/L						
LCS (B240950-BS1)				Prepared: 19-Ap	r-24 Analyzed: 2	3-Apr-24			
Calcium	2.20	0.200	mg/L	2.00	110	85-115			
Sodium	1.68	1.00	mg/L	1.62	104	85-115			
Potassium	4.42	1.00	mg/L	4.00	110	85-115			
Magnesium	11.3	0.100	mg/L	10.0	113	85-115			
LCS Dup (B240950-BSD1)				Prepared: 19-Ap	r-24 Analyzed: 2	3-Apr-24			
Potassium	4.44	1.00	mg/L	4.00	111	85-115	0.555	20	
Magnesium	11.3	0.100	mg/L	10.0	113	85-115	0.382	20	
Sodium	1.69	1.00	mg/L	1.62	104	85-115	0.785	20	
Calcium	2.18	0.200	mg/L	2.00	109	85-115	0.811	20	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



%REC

Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$ WALL STREET , STE 100

MIDLAND TX, 79701

Project: WAY SOUTH STATE COM#001H FV

Source

Project Number: 212C - MD - 02839

Spike

Project Manager: SAM ABBOTT

Fax To: (432) 682-3946

Reported: 29-Apr-24 16:18

RPD

Dissolved Metals by ICP - Quality Control

Green Analytical Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B240987 - Dissolved ICP										
Blank (B240987-BLK1)				Prepared &	k Analyzed:	25-Apr-24				
Iron	ND	0.050	mg/L							
Manganese	ND	0.020	mg/L							
LCS (B240987-BS1)				Prepared &	t Analyzed:	25-Apr-24				
Iron	4.14	0.050	mg/L	4.00		103	85-115			
Manganese	2.13	0.020	mg/L	2.00		106	85-115			
LCS Dup (B240987-BSD1)				Prepared &	k Analyzed:	25-Apr-24				
Manganese	2.16	0.020	mg/L	2.00		108	85-115	1.52	20	
Iron	4.21	0.050	mg/L	4.00		105	85-115	1.68	20	

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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. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 11 of 12

Delivered By: (Circle One) Sampler - UPS - Bus - Other:

Sample Condit
Cool Intact
Cool Intact
O No O No

mometer ID #140 action Factor 0°C

Tes Yes Gorneled Temp. 'C

ORM-005 R 3.2 10/07/21

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Colton Bickerstaff	affiliates or successors arising out of		PLEASE NOTE: Liability and Demages no event shall Cardinal be liable for it										/ MI		goothet	Lab I.D.	FOR LAB USE ONLY	Sampler Name: Colton Bickerstaff	Project Location: Eddy County, New Mexico	Project Name: Way South State Com #001H FWKO Tank Battery Release	Project#: 212	Phone #: (512	City: Austin	Address: 8911 Capital o Texas Hwy, Suite 2310	Project Manager: Sam Abbott	Company Name: Tetra Tech	
	Iton Bickerstaff	effilates of succeedura artising out of or resided to the partnmanne or see such a mineral series of secondary and secon	PLEASE NOTE: Labelly and Demogre. Cardinat's stability and client's exclaime memok for any client manual minimate came in consequent, one of use of publis incurred by client, its subsidiations, no event shall Cardinat be liable for incidental or communicated damagne, including without illimitation, by whetheress interpretation, loss of use, or beast of publis incurred by client, its subsidiations or or any client in the sale of contraction of the above stated measure or or or or other publishments of the sale of contractions of contractions of the sale of contractions of contractions of the sale of contractions of	and the second professional pro									MW-1		Sample I.D.			n Bickerstaff	y County, New Mexic	outh State Com #001F	212C-MD-02839 Pro	(512)565-0190 Fax #:		o Texas Hwy, Suite 2	Abbott	Tech	101 East Marian (575) 393-232
でいるが	Date: 04/17/24	and the second of the second self-	remody for any oten among whether including without limitation, busine												,				0	FWKO Tank Batter	Project Owner:	#	State: TX	310			101 East Mariand, Hoods, NW 60240 (575) 393-2326 FAX (575) 393-2476
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8	-		subsidiaries, teasons or otherwise.	the analyses All claim									4/17/2024	DATE :			. SAMPLING			Zip:		MAIL	Attn: Sam Abbott	Company: Tetra Tech		BILL TO	CONTRACT
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May 01, 2024

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND, TX 79701

RE: WAY SOUTH STATE COM#001H FWKO TANK BATTERY RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 04/18/24 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Project: WAY SOUTH STATE COM#001H FV

Project Number: 212C - MD - 02839

Project Manager: SAM ABBOTT

Fax To: (432) 682-3946

Reported: 01-May-24 10:00

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	
MW - 2	H242072-01	Water	18-Apr-24 00:00	18-Apr-24 13:25	
MW - 3	H242072-02	Water	18-Apr-24 00:00	18-Apr-24 13:25	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Reported:

01-May-24 10:00



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

Analytical Results For:

TETRA TECH

 $901\ \text{WEST}$ WALL STREET , STE 100

MIDLAND TX, 79701

Project: WAY SOUTH STATE COM#001H FV

Project Number: 212C - MD - 02839

Project Manager: SAM ABBOTT

Fax To: (432) 682-3946

MW - 2 H242072-01 (Water)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardi	nal Laborato	ories					
Inorganic Compounds									
Alkalinity, Bicarbonate	405	5.00	mg/L	1	4041619	HM	19-Apr-24	310.1	
Alkalinity, Carbonate	<1.00	1.00	mg/L	1	4041619	HM	19-Apr-24	310.1	
Chloride*	5000	4.00	mg/L	1	4041702	AC	19-Apr-24	4500-Cl-B	
Conductivity*	22200	1.00	umhos/cm @ 25°C	1	4041825	НМ	18-Apr-24	120.1	
pH*	6.92	0.100	pH Units	1	4041825	HM	18-Apr-24	150.1	
Temperature °C	12.6		pH Units	1	4041825	HM	18-Apr-24	150.1	
Sulfate*	6790	1250	mg/L	125	4042506	CT	26-Apr-24	375.4	
TDS*	18100	5.00	mg/L	1	4041752	AC	23-Apr-24	160.1	
Alkalinity, Total*	332	4.00	mg/L	1	4041619	HM	19-Apr-24	310.1	
Petroleum Hydrocarbons by G	C FID								
GRO C6-C10*	<1.00	1.00	mg/L	0.1	4041934	MS	22-Apr-24	8015B	
DRO >C10-C28*	<1.00	1.00	mg/L	0.1	4041934	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<1.00	1.00	mg/L	0.1	4041934	MS	22-Apr-24	8015B	
Surrogate: 1-Chlorooctane		88.9 %	6 71.5-	140	4041934	MS	22-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane		81.1 %	60.4-	151	4041934	MS	22-Apr-24	8015B	
Volatile Organic Compounds b	oy EPA Method 8260	В							
Benzene	< 0.0005	0.0005	mg/L	1	4041824	MS	18-Apr-24	8260B	
Toluene	< 0.0005	0.0005	mg/L	1	4041824	MS	18-Apr-24	8260B	
Ethylbenzene	< 0.0005	0.0005	mg/L	1	4041824	MS	18-Apr-24	8260B	
Total Xylenes	< 0.001	0.001	mg/L	1	4041824	MS	18-Apr-24	8260B	
Total BTEX	< 0.003	0.003	mg/L	1	4041824	MS	18-Apr-24	8260B	
Surrogate: Dibromofluoromethane		114 %	6 82.4-	141	4041824	MS	18-Apr-24	8260B	
Surrogate: Toluene-d8		92.1 %	6 87.1-	110	4041824	MS	18-Apr-24	8260B	
Surrogate: 4-Bromofluorobenzene		86.1 %	6 76.4-	114	4041824	MS	18-Apr-24	8260B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: WAY SOUTH STATE COM#001H FV

Project Number: 212C - MD - 02839

Project Manager: SAM ABBOTT

Fax To: (432) 682-3946

Reported: 01-May-24 10:00

MW - 2

H242072-01 (Water)

Green Analytical Laboratories

Total Recoverable Metals by I	CP (E200.7)		•					
Calcium*	695	4.00	mg/L	20	B240988	AWG	26-Apr-24	EPA200.7
Magnesium*	1180	2.00	mg/L	20	B240988	AWG	26-Apr-24	EPA200.7
Potassium*	66.5	20.0	mg/L	20	B240988	AWG	26-Apr-24	EPA200.7
Sodium*	3530	20.0	mg/L	20	B240988	AWG	26-Apr-24	EPA200.7
Dissolved Metals by ICP								
Iron*	<1.00	1.00	mg/L	20	B240987	AWG	25-Apr-24	EPA200.7
Manganese*	< 0.400	0.400	mg/L	20	B240987	AWG	25-Apr-24	EPA200.7

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Celey D. Keene

Reported:

01-May-24 10:00



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

Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: WAY SOUTH STATE COM#001H FV

Project Number: 212C - MD - 02839

Project Manager: SAM ABBOTT

Fax To: (432) 682-3946

MW-3 H242072-02 (Water)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardi	nal Laborato	ories					
Inorganic Compounds									
Alkalinity, Bicarbonate	405	5.00	mg/L	1	4041619	HM	19-Apr-24	310.1	
Alkalinity, Carbonate	<1.00	1.00	mg/L	1	4041619	HM	19-Apr-24	310.1	
Chloride*	5100	4.00	mg/L	1	4041702	AC	19-Apr-24	4500-Cl-B	
Conductivity*	22400	1.00	umhos/cm @ 25°C	1	4041825	HM	18-Apr-24	120.1	
pH*	7.11	0.100	pH Units	1	4041825	HM	18-Apr-24	150.1	
Temperature °C	13.3		pH Units	1	4041825	HM	18-Apr-24	150.1	
Sulfate*	5720	1250	mg/L	125	4042506	CT	26-Apr-24	375.4	
TDS*	18000	5.00	mg/L	1	4041752	AC	23-Apr-24	160.1	
Alkalinity, Total*	332	4.00	mg/L	1	4041619	HM	19-Apr-24	310.1	
Petroleum Hydrocarbons by G	C FID								
GRO C6-C10*	<1.00	1.00	mg/L	0.1	4041934	MS	22-Apr-24	8015B	
DRO >C10-C28*	<1.00	1.00	mg/L	0.1	4041934	MS	22-Apr-24	8015B	
EXT DRO >C28-C36	<1.00	1.00	mg/L	0.1	4041934	MS	22-Apr-24	8015B	
Surrogate: 1-Chlorooctane		89.3 %	6 71.5-	140	4041934	MS	22-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane		81.5 %	60.4-	151	4041934	MS	22-Apr-24	8015B	
Volatile Organic Compounds b	oy EPA Method 8260	0B							
Benzene	< 0.0005	0.0005	mg/L	1	4041824	MS	18-Apr-24	8260B	
Toluene	< 0.0005	0.0005	mg/L	1	4041824	MS	18-Apr-24	8260B	
Ethylbenzene	< 0.0005	0.0005	mg/L	1	4041824	MS	18-Apr-24	8260B	
Total Xylenes	< 0.001	0.001	mg/L	1	4041824	MS	18-Apr-24	8260B	
Total BTEX	< 0.003	0.003	mg/L	1	4041824	MS	18-Apr-24	8260B	
Surrogate: Dibromofluoromethane		111 %	6 82.4-	141	4041824	MS	18-Apr-24	8260B	
Surrogate: Toluene-d8		92.3 %	6 87.1-	110	4041824	MS	18-Apr-24	8260B	
Surrogate: 4-Bromofluorobenzene		88.1 %	6 76.4-	114	4041824	MS	18-Apr-24	8260B	

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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Reported:

01-May-24 10:00



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

Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: WAY SOUTH STATE COM#001H FV

Project Number: 212C - MD - 02839

Project Manager: SAM ABBOTT

Fax To: (432) 682-3946

MW - 3 H242072-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	--------------------	-------	----------	-------	---------	----------	--------	-------

Green Analytical Laboratories

Total Recoverable Metals by	y ICP (E200.7)							
Calcium*	771	4.00	mg/L	20	B240988	AWG	30-Apr-24	EPA200.7
Magnesium*	1120	2.00	mg/L	20	B240988	AWG	30-Apr-24	EPA200.7
Potassium*	45.2	20.0	mg/L	20	B240988	AWG	30-Apr-24	EPA200.7
Sodium*	3550	20.0	mg/L	20	B240988	AWG	30-Apr-24	EPA200.7
Dissolved Metals by ICP								
Iron*	<1.00	1.00	mg/L	20	B240987	AWG	25-Apr-24	EPA200.7
Manganese*	< 0.400	0.400	mg/L	20	B240987	AWG	25-Apr-24	EPA200.7

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Celey D. Keine



Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: WAY SOUTH STATE COM#001H FV

Project Number: 212C - MD - 02839

Project Manager: SAM ABBOTT

Fax To: (432) 682-3946

Reported: 01-May-24 10:00

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4041619 - General Prep - Wet Che	m									
Blank (4041619-BLK1)				Prepared &	Analyzed:	16-Apr-24				
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							
LCS (4041619-BS1)				Prepared &	: Analyzed:	16-Apr-24				
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	292	12.5	mg/L				80-120			
Alkalinity, Total	240	10.0	mg/L	250		96.0	80-120			
LCS Dup (4041619-BSD1)				Prepared &	Analyzed:	16-Apr-24				
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120	4.18	20	
Alkalinity, Total	250	10.0	mg/L	250		100	80-120	4.08	20	
Batch 4041702 - General Prep - Wet Che	m									
Blank (4041702-BLK1)				Prepared: 1	7-Apr-24 A	Analyzed: 1	9-Apr-24			
Chloride	ND	4.00	mg/L							
LCS (4041702-BS1)				Prepared: 1	7-Apr-24 A	Analyzed: 1	9-Apr-24			
Chloride	104	4.00	mg/L	100		104	80-120			
LCS Dup (4041702-BSD1)				Prepared: 1	7-Apr-24 A	Analyzed: 1	9-Apr-24			
Chloride	108	4.00	mg/L	100		108	80-120	3.77	20	
Batch 4041752 - Filtration										
Blank (4041752-BLK1)				Prepared: 1	8-Apr-24 A	Analyzed: 2	2-Apr-24			

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Celey D. Keene



Analytical Results For:

TETRA TECH

Project: WAY SOUTH STATE COM#001H FV

Reported:

901 WEST WALL STREET, STE 100

Project Number: 212C - MD - 02839

01-May-24 10:00

MIDLAND TX, 79701

Project Manager: SAM ABBOTT

Fax To: (432) 682-3946

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4041752 - Filtration										
LCS (4041752-BS1)				Prepared: 1	8-Apr-24 A	analyzed: 2	2-Apr-24			
TDS	806		mg/L	1000		80.6	80-120			
Duplicate (4041752-DUP1)	Sou	rce: H241997	'-01	Prepared: 1	8-Apr-24 A	analyzed: 2	2-Apr-24			
TDS	1130	5.00	mg/L		1190			5.26	20	
Batch 4041825 - General Prep - Wet Chem										
LCS (4041825-BS1)				Prepared &	: Analyzed:	18-Apr-24				
Conductivity	50300		uS/cm	50000		101	80-120			
pH	7.04		pH Units	7.00		101	90-110			
Duplicate (4041825-DUP1)	Sou	rce: H242043	-01	Prepared &	Analyzed:	18-Apr-24				
Conductivity	1400	1.00 1	umhos/cm @ 25°C	}	1410			0.642	20	
pH	7.77	0.100	pH Units		7.71			0.775	20	
Temperature °C	18.6		pH Units		18.6			0.00	200	
Batch 4042506 - General Prep - Wet Chem										
Blank (4042506-BLK1)				Prepared: 2	25-Apr-24 A	analyzed: 2	6-Apr-24			
Sulfate	ND	10.0	mg/L							
LCS (4042506-BS1)				Prepared: 2	25-Apr-24 A	analyzed: 2	6-Apr-24			
Sulfate	17.0	10.0	mg/L	20.0		85.2	80-120			
LCS Dup (4042506-BSD1)				Prepared: 2	25-Apr-24 A	analyzed: 2	6-Apr-24			

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Celey D. Keene



%REC

Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: WAY SOUTH STATE COM#001H FV

Source

Project Number: 212C - MD - 02839

Project Manager: SAM ABBOTT

Fax To: (432) 682-3946

Spike

Reported: 01-May-24 10:00

RPD

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4041934 - General Prep - Organics										
Blank (4041934-BLK1)				Prepared &	દે Analyzed:	22-Apr-24				
GRO C6-C10	ND	1.00	mg/L							
DRO >C10-C28	ND	1.00	mg/L							
EXT DRO >C28-C36	ND	1.00	mg/L							
Surrogate: 1-Chlorooctane	4.40		mg/L	5.00		88.0	71.5-140			
Surrogate: 1-Chlorooctadecane	4.42		mg/L	5.00		88.5	60.4-151			
LCS (4041934-BS1)				Prepared &	દે Analyzed:	22-Apr-24				
GRO C6-C10	49.2	1.00	mg/L	50.0		98.4	72.6-121			
DRO >C10-C28	49.3	1.00	mg/L	50.0		98.6	76-119			
Surrogate: 1-Chlorooctane	5.15		mg/L	5.00		103	71.5-140			
Surrogate: 1-Chlorooctadecane	5.74		mg/L	5.00		115	60.4-151			
LCS Dup (4041934-BSD1)				Prepared &	k Analyzed:	22-Apr-24				
GRO C6-C10	49.7	1.00	mg/L	50.0		99.4	72.6-121	0.987	16.8	
DRO >C10-C28	48.9	1.00	mg/L	50.0		97.8	76-119	0.735	20.4	
Surrogate: 1-Chlorooctane	5.21		mg/L	5.00		104	71.5-140			
Surrogate: 1-Chlorooctadecane	5.61		mg/L	5.00		112	60.4-151			

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Celeg D. Keene



%REC

Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: WAY SOUTH STATE COM#001H FV

Source

Project Number: 212C - MD - 02839

Project Manager: SAM ABBOTT

Fax To: (432) 682-3946

Spike

Reported: 01-May-24 10:00

RPD

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

Reporting

		recporting		Spine	Source		, sille		1 D	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4041824 - Volatiles										
Blank (4041824-BLK1)				Prepared &	: Analyzed:	18-Apr-24	ļ			
Benzene	ND	0.0005	mg/L							
Toluene	ND	0.0005	mg/L							
Ethylbenzene	ND	0.0005	mg/L							
Total Xylenes	ND	0.001	mg/L							
Total BTEX	ND	0.003	mg/L							
Surrogate: Dibromofluoromethane	0.0538		mg/L	0.0500		108	82.4-141			
Surrogate: Toluene-d8	0.0467		mg/L	0.0500		93.3	87.1-110			
Surrogate: 4-Bromofluorobenzene	0.0445		mg/L	0.0500		89.0	76.4-114			
LCS (4041824-BS1)				Prepared &	: Analyzed:	18-Apr-24	ļ			
Benzene	0.018	0.0005	mg/L	0.0200		89.1	85.9-114			
Toluene	0.018	0.0005	mg/L	0.0200		88.2	78.8-121			
Ethylbenzene	0.019	0.0005	mg/L	0.0200		94.3	81.8-127			
m+p - Xylene	0.040	0.001	mg/L	0.0400		99.0	72.4-134			
o-Xylene	0.019	0.0005	mg/L	0.0200		93.1	76.2-135			
Total Xylenes	0.058	0.001	mg/L	0.0600		97.0	74.3-134			
Surrogate: Dibromofluoromethane	0.0553		mg/L	0.0500		111	82.4-141			
Surrogate: Toluene-d8	0.0469		mg/L	0.0500		93.9	87.1-110			
Surrogate: 4-Bromofluorobenzene	0.0473		mg/L	0.0500		94.6	76.4-114			
LCS Dup (4041824-BSD1)				Prepared &	: Analyzed:	18-Apr-24	1			
Benzene	0.018	0.0005	mg/L	0.0200		90.9	85.9-114	2.00	4.14	
Toluene	0.017	0.0005	mg/L	0.0200		86.8	78.8-121	1.54	5.73	
Ethylbenzene	0.019	0.0005	mg/L	0.0200		93.0	81.8-127	1.44	4.95	
m+p - Xylene	0.039	0.001	mg/L	0.0400		98.6	72.4-134	0.430	5.81	
Total Xylenes	0.058	0.001	mg/L	0.0600		96.5	74.3-134	0.551	5.84	
o-Xylene	0.018	0.0005	mg/L	0.0200		92.3	76.2-135	0.809	6.32	
Surrogate: Dibromofluoromethane	0.0546		mg/L	0.0500		109	82.4-141			
Surrogate: Toluene-d8	0.0460		mg/L	0.0500		92.0	87.1-110			
Surrogate: 4-Bromofluorobenzene	0.0471		mg/L	0.0500		94.2	76.4-114			

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Celey D. Keens

Celey D. Keene, Lab Director/Quality Manager



%REC

Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: WAY SOUTH STATE COM#001H FV

Source

Project Number: 212C - MD - 02839

Project Manager: SAM ABBOTT

Fax To: (432) 682-3946

Spike

Reported: 01-May-24 10:00

RPD

Total Recoverable Metals by ICP (E200.7) - Quality Control

Green Analytical Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B240988 - Total Recoverable by ICI	P									
Blank (B240988-BLK1)				Prepared: 2	25-Apr-24 A	Analyzed: 2	6-Apr-24			
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Calcium	ND	0.200	mg/L							
Sodium	ND	1.00	mg/L							
LCS (B240988-BS2)				Prepared: 2	25-Apr-24 A	Analyzed: 2	6-Apr-24			
Potassium	1.87	1.00	mg/L	1.89		99.0	85-115			
Sodium	8.09	1.00	mg/L	8.13		99.6	85-115			
LCS (B240988-BS3)				Prepared: 2	25-Apr-24 A	Analyzed: 2	6-Apr-24			
Calcium	1.16	0.200	mg/L	1.19		97.9	85-115			
Magnesium	1.63	0.100	mg/L	1.66		98.4	85-115			
LCS Dup (B240988-BSD2)				Prepared: 2	25-Apr-24 A	Analyzed: 2	6-Apr-24			
Sodium	8.15	1.00	mg/L	8.13		100	85-115	0.656	20	
Potassium	1.89	1.00	mg/L	1.89		99.9	85-115	0.959	20	
LCS Dup (B240988-BSD3)				Prepared: 2	25-Apr-24 A	Analyzed: 2	6-Apr-24			
Magnesium	1.59	0.100	mg/L	1.66		95.9	85-115	2.60	20	
Calcium	1.14	0.200	mg/L	1.19		95.8	85-115	2.18	20	

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Celey D. Keene



%REC

Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: WAY SOUTH STATE COM#001H FV

Source

Project Number: 212C - MD - 02839

Spike

Project Manager: SAM ABBOTT Fax To: (432) 682-3946

Reported: 01-May-24 10:00

RPD

Dissolved Metals by ICP - Quality Control

Green Analytical Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B240987 - Dissolved ICP										
Blank (B240987-BLK1)				Prepared &	z Analyzed:	25-Apr-24				
Manganese	ND	0.020	mg/L							
Iron	ND	0.050	mg/L							
LCS (B240987-BS1)				Prepared &	z Analyzed:	25-Apr-24				
Iron	4.14	0.050	mg/L	4.00		103	85-115			
Manganese	2.13	0.020	mg/L	2.00		106	85-115			
LCS Dup (B240987-BSD1)				Prepared &	z Analyzed:	25-Apr-24				
Iron	4.21	0.050	mg/L	4.00		105	85-115	1.68	20	
Manganese	2.16	0.020	mg/L	2.00		108	85-115	1.52	20	

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Celey D. Keens



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.

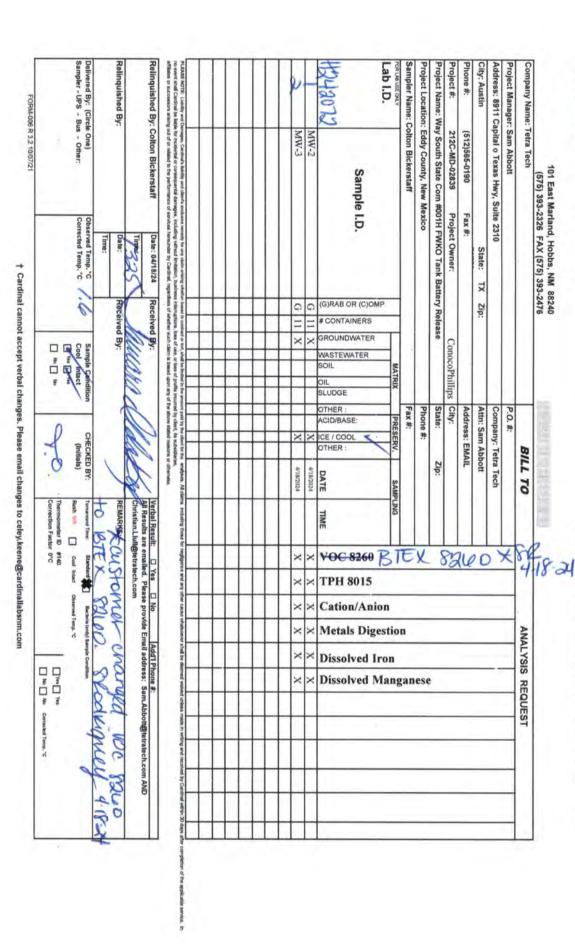
Chloride by SM4500Cl-B does not require samples be received at or below 6°C
 Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

CARDINAL Laboratories



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



April 02, 2025

CHRISTIAN LLULL
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: WAY SOUTH STATE COM 1 FWKO

Enclosed are the results of analyses for samples received by the laboratory on 03/27/25 13:40.

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. Keene

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
CHRISTIAN LLULL
901 WEST WALL STREET , STE 100

MIDLAND TX, 79701 Fax To: (432) 682

Fax To: (432) 682-3946

Reported: 04/02/2025
Project Name: WAY SOUTH STATE COM 1 FWKO

03/27/2025

Project Number: 212C - MD - 02839A

Project Location: COP - EDDY CO NM

Sampling Date: 03/27/2025

Sampling Type: Water

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: PW - 1 (H251831-01)

Received:

Chloride, SM4500Cl-B (Water)	mg/	<u>L</u>	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	120000	4.00	03/28/2025	ND	100	100	100	0.00	
TDS 160.1	mg/	'L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	191000	5.00	03/31/2025	ND	937	93.7	1000	1.11	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

ompany Name: Teta Tech	BILL TO	70	ANALYSIS REQUEST
1	P.O. #: Contra Phillips	311) 54-11	
\ddress:	Company: Covace Phi	Ophillips	
State:	Zip: Attn: Christian. Holl & letate	1/01/0 letatete com	
hone #: Fax #:	Address:	(
: 212C-MD-018394 Proje	r: City:		
h State Con	State: Zip:		
dely County NM	Phone #:		
1	Fax #:		
FOR LAB USE ONLY		SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:		
Pw-/			
Liability and Damages. Cardinal's liability and clie ms including those for negligence and any other or ent shall Cardinal be liable for incidental or conse	any claim arising whether based in contract or tort, shall be limited to the a deemed waiwed unless made in writing and received by Cardinal within 30 mg without limitation, business interruptions, loss of use, or loss of profits in:	rount paid by the client for the days after completion of the applicable med by client, its subsidiaries, about manages or Chibaculies	
Relinquished By: At Militim Exposity Time:	5	Verbal Result: ☐ Yes ☐ No ☐ Add'! Phone #: All Results are emailed. Please provide Email address:	ovide Email address:
Relinquished By: Time:	Received By:	REMARKS	
Delivered By: (Circle One) Observed Temp. °C Corrected Temp. °C Observed Temp. °C	Sample Condition CHECKED BY: Cool Intact (Initials) No No No	Y: Turnaround Time: Standard \$ 3735 Thermometer ID #140 Correction Factor 46°C+2·32	d 🔀 Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes 🗌 Yes No 🗍 No Corrected Temp. °C

□ No □ No



April 02, 2025

CHRISTIAN LLULL
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: WAY SOUTH STATE COM 1 FWKO

Enclosed are the results of analyses for samples received by the laboratory on 03/27/25 13:40.

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. Keene

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
CHRISTIAN LLULL

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/27/2025 Sampling Date: 03/27/2025
Reported: 04/02/2025 Sampling Type: Water

Project Name: WAY SOUTH STATE COM 1 FWKO Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02839A Sample Received By: Tamara Oldaker

Project Location: COP - EDDY CO NM

Sample ID: PW - 1 (H251832-01)

Sulfate 375.4	mg,	/L	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	138	25.0	03/31/2025	ND	19.1	95.6	20.0	4.71	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



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

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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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

P.O. #: Company: Tetra Attn: Christian LI Address: EMAIL City: VKO State: Zi Phone #: Fax #: MATRIX PRESERV.		P.O. #: Company: Tetra Tech Attn: Christian Llull Address: EMAIL City: State: Zip: Phone #: PRESERV. SAMPLING
	MPLING	TES

APPENDIX G Soils and Geologic Setting



NRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico

Way South FWKO



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

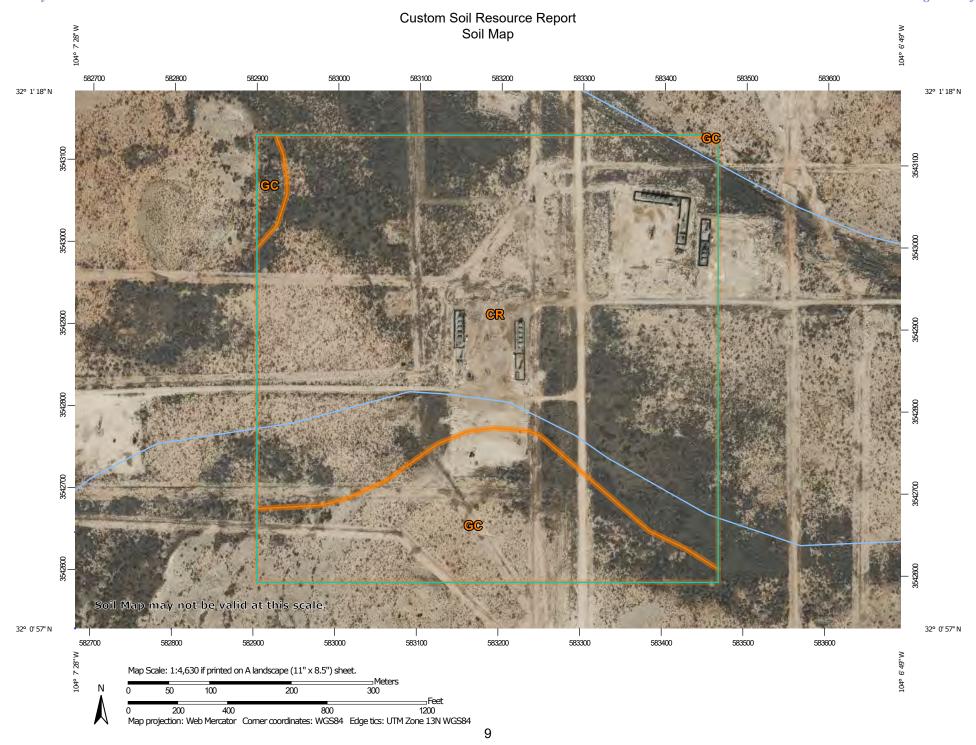
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

ဖ

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water Rock Outcrop

Sandy Spot

Saline Spot

Severely Eroded Spot

Sinkhole

Slide or Slip Sodic Spot

Spoil Area

å

Stony Spot

Very Stony Spot

Ŷ

Wet Spot Other

Δ

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

00

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2. 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CR	Cottonwood-Reeves loams, overflow, 0 to 3 percent slopes	58.6	76.8%
GC	Gypsum land-Cottonwood complex, 0 to 3 percent slopes	17.8	23.2%
Totals for Area of Interest	·	76.4	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The

delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Eddy Area, New Mexico

CR—Cottonwood-Reeves loams, overflow, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w47 Elevation: 3,000 to 4,300 feet

Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 200 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Cottonwood and similar soils: 60 percent Reeves and similar soils: 35 percent Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cottonwood

Setting

Landform: Ridges, hills

Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope Landform position (three-dimensional): Side slope, head slope, nose slope, crest

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 9 inches: loam H2 - 9 to 60 inches: bedrock

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 3 to 12 inches to paralithic bedrock

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.20 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Gypsum, maximum content: 20 percent

Maximum salinity: Moderately saline to strongly saline (8.0 to 16.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: D

Ecological site: R070BB006NM - Gyp Upland

Hydric soil rating: No

Description of Reeves

Setting

Landform: Plains, ridges, hills

Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope Landform position (three-dimensional): Side slope, head slope, nose slope, crest

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam H2 - 8 to 32 inches: clay loam

H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: Occasional Frequency of ponding: None

Calcium carbonate, maximum content: 25 percent

Gypsum, maximum content: 20 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Low (about 4.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6w

Hydrologic Soil Group: B

Ecological site: R070BB006NM - Gyp Upland

Hydric soil rating: No

Minor Components

Unnamed soils

Percent of map unit: 5 percent

Hydric soil rating: No

GC—Gypsum land-Cottonwood complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4g Elevation: 1,250 to 5,000 feet

Mean annual precipitation: 10 to 25 inches
Mean annual air temperature: 57 to 66 degrees F

Frost-free period: 190 to 225 days

Farmland classification: Not prime farmland

Map Unit Composition

Gypsum land: 60 percent

Cottonwood and similar soils: 30 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Gypsum Land

Setting

Landform: Ridges, plains, hills

Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope Landform position (three-dimensional): Side slope, head slope, nose slope, crest

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Description of Cottonwood

Setting

Landform: Ridges, hills

Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope Landform position (three-dimensional): Side slope, head slope, nose slope, crest

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 60 inches: bedrock

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 3 to 12 inches to paralithic bedrock

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.20 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Gypsum, maximum content: 5 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: D

Ecological site: R070BB006NM - Gyp Upland

Hydric soil rating: No

Minor Components

Cottonwood

Percent of map unit: 5 percent

Ecological site: R070BC033NM - Salty Bottomland

Hydric soil rating: No

Rock outcrop

Percent of map unit: 5 percent

Hydric soil rating: No

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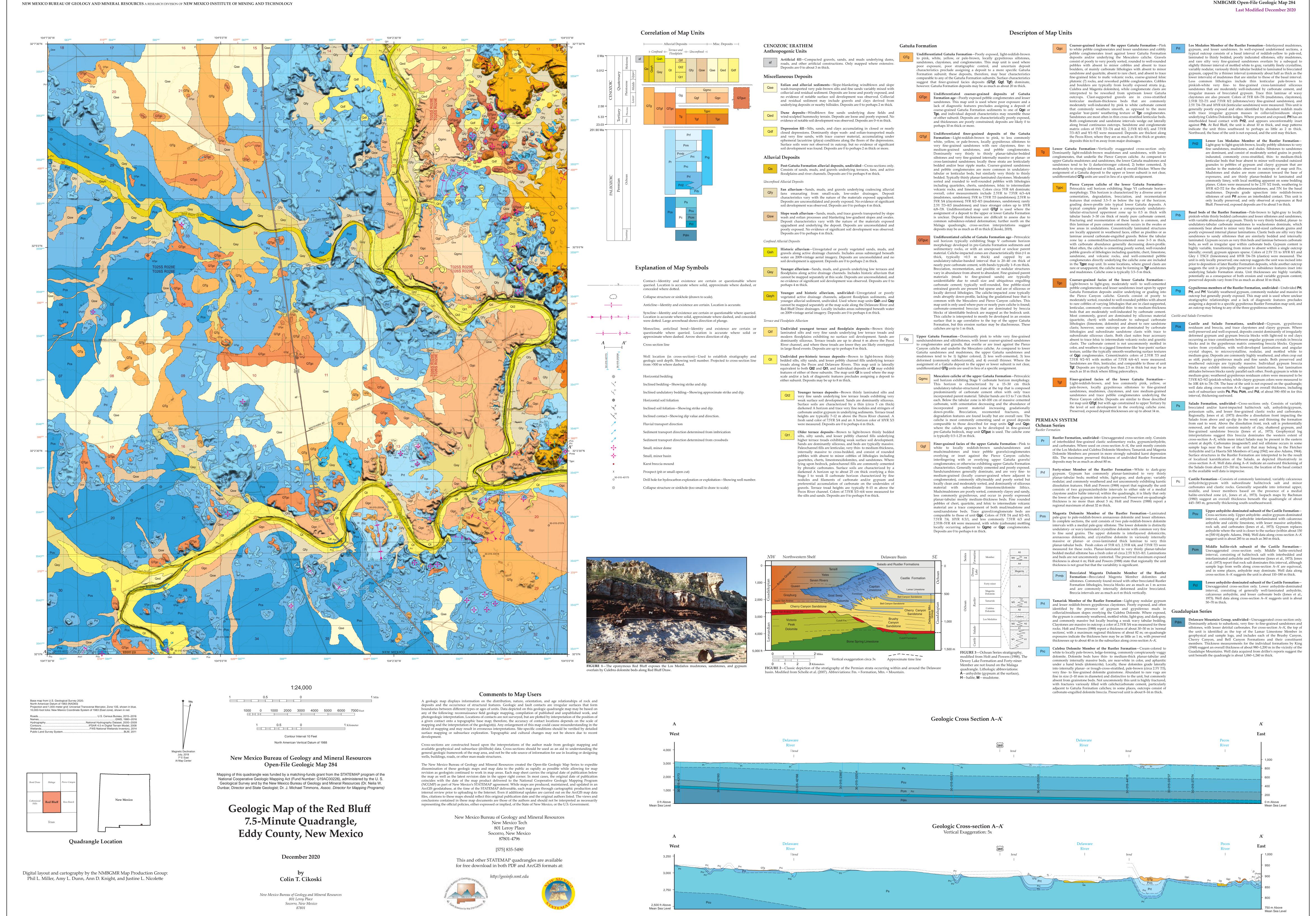
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Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 487958

QUESTIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	487958
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2008650013
Incident Name	NRM2008650013 WAY SOUTH STATE COM #001H @ 30-015-37234
Incident Type	Release Other
Incident Status	Remediation Plan Approved
Incident Well	[30-015-37234] WAY SOUTH STATE COM #001H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	WAY SOUTH STATE COM #001H
Date Release Discovered	12/25/2019
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Release Other
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	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Equipment Failure Other (Specify) Crude Oil Released: 4 BBL Recovered: 3 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Other (Specify) Produced Water Released: 6 BBL Recovered: 5 BBL Lost: 1 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 487958

QUESTI	ONS (continued)	
Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137 Action Number: 487958 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
QUESTIONS		
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No	
Reasons why this would be considered a submission for a notification of a major release	Unavailable.	
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	rafety hazard that would result in injury.	
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted 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 ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetratech.com Date: 07/23/2025	

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Remediation Plan

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QUESTIONS, Page 3

Action 487958

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	487958
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 Less than or equal 25 (ft.) release in feet below ground surface (ft bgs) What method was used to determine the depth to ground water **Direct Measurement** Did this release impact groundwater or surface water 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 200 and 300 (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 Greater than 5 (mi.) for domestic or stock watering purposes Any other fresh water well or spring Between 1 and 5 (mi.) Incorporated municipal boundaries or a defined municipal fresh water well field Greater than 5 (mi.) Between 1 and 5 (mi.) A subsurface mine Greater than 5 (mi.) An (non-karst) unstable area Greater than 5 (mi.) Categorize the risk of this well / site being in a karst geology A 100-year floodplain Zero feet, overlying, or within area Did the release impact areas not on an exploration, development, production, or No storage site

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.		
Yes		
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC		
Yes		
No		
milligrams per kilograms.)		
6960		
80.6		
80.6		
0		
0		
eted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC		
11/01/2025		
11/05/2025		
11/06/2025		
0		
0		
0		
0		
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

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

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QUESTIONS, Page 4

Action 487958

QUESTIONS	(continued)
QUESTIONS!	(COHUH IUCU

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	487958
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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.)	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Yes	
Other Non-listed Remedial Process. Please specify	P&A of onsite wells.	

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.

Name: Christian LLuLL Title: Project Manager I hereby agree and sign off to the above statement Email: christian.llull@tetratech.com Date: 07/23/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

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

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QUESTIONS, Page 5

Action 487958

QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	487958
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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

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QUESTIONS, Page 6

Action 487958

QUESTIONS (continued)

Operator:	OGRID:		
COG OPERATING LLC	229137		
600 W Illinois Ave			
	Action Number:		
Midland, TX 79701	487958		
	Action Type:		
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)		
QUESTIONS			
Sampling Event Information			
Last sampling notification (C-141N) recorded	{Unavailable.}		
Remediation Closure Request			
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.			
Requesting a remediation closure approval with this submission	No		

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CONDITIONS

Action 487958

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	487958
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Revised Remediation Plan is Conditionally Approved. The OCD generally likes to see one monitoring well in the release area and additional groundwater monitoring wells outside of the area of concern, where no oil and gas activity has taken place. The additional monitoring wells should be in areas of high vegetation and away from roads, pads, and any other oil gas activity. The three monitoring wells in this case are relatively close together. The OCD is familiar with the draw in this particular area and is aware of the potential for saline groundwater in the immediate area of the draw. The groundwater analytical results collected during assessment activities show groundwater at the site is not protectable due to the high TDS. At this time, no additional action regarding groundwater abatement is requested at the site.	9/30/2025
rhamlet	The only boreholes that were taken in areas of high vegetation signifying areas of minimal activity were boreholes BG-2 and BG-4. These two boreholes will serve as background numbers in this immediate area. The other background boreholes were taken in areas of little to no vegetation, which is indicative of oil and gas activity. The two background numbers at a depth of 1 foot should be averaged. The two background numbers at a depth of 2 feet should be averaged and so on. The composite numbers will be used for the final background numbers. Due to the shallow groundwater and sensitive nature of the release location, the site will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule or the calculated composite background numbers.	9/30/2025
rhamlet	Please collect confirmation samples, representing no more than 200 ft2. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Sidewall/edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined, especially around equipment. All off-pad areas must meet reclamation standards in the OCD Spill Rule. The work will need to be completed in 90 days after the report has been reviewed.	9/30/2025