



April 18, 2024

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

**Re: Remediation Work Plan
ConocoPhillips (Heritage COG Operating LLC)
West Brushy 8 Federal SWD #001 Release
Unit Letter A, Section 08, Township 26 South, Range 29 East
Eddy County, New Mexico
Incident ID# nAB1529948530
2RP-3353**

Ms. Hall,

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (ConocoPhillips) to evaluate a historical Heritage COG Operating (COG) release and subsequent remedial actions performed at the West Brushy 8 Federal SWD #001 release site (API No. 30-015-31675). The release footprint is located in Public Land Survey System (PLSS) Unit Letter A, Section 08, Township 26 South, Range 29 East, in Eddy County, New Mexico (Site). The approximate release point occurred at coordinates 32.063845° -103.997697° as shown on Figures 1 and 2. The site is located on federal lands managed by the Bureau of Land Management (BLM).

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release was discovered on September 13, 2015. The release occurred when a poly flowline was damaged by a crew working in the area. Vacuum trucks were dispatched to remove all freestanding fluids. Approximately 30 barrels (bbls) of produced water were released on pasture alongside the road, of which approximately 3 bbls were recovered. The approximate release extent is shown in Figure 3.

The NMOCD approved the initial C-141 on October 26, 2015, and subsequently assigned the release the Incident ID nAB1529948530 and the remediation permit (RP) number 2RP-3353. The initial C-141 form is included in Appendix A.

COG SITE ASSESSMENT, 2016 WORK PLAN AND CLOSURE LETTER

A site assessment for this incident was conducted by COG in October 2015. Assessment activities consisted of advancing three (3) borings (S1, S2, and S3) in the release extent footprint. Two (2) samples per boring were collected, one from the surface and one from 1-foot bgs. The assessment sampling locations are presented in Figure 3. A total of six (6) samples were collected from the locations and transferred under chain of custody to Cardinal Laboratories (Cardinal). All soil samples were analyzed for chloride via Method SM4500Cl-B. Analytical results associated with samples collected during the October 2015 assessment activities are summarized in Table 1.

Based on the assessment results, COG prepared and submitted a Work Plan to the NMOCD in January 2016. In the report, COG proposed the following:

Tetra Tech

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- *“COG Operating LLC proposes that no excavation other than a surface scrape be required due to high-risk hazards in the area.*
- *The area consists of three high pressure gas lines associated with a neighboring compressor station, a water line, a crude oil line that runs east and west, and overhead power lines.”*

Through a desktop review, Tetra Tech located copies of the email correspondence over multiple dates from COG, NMOCD, and BLM regarding this incident. The following comments are in response to the submitted Work Plan, from an email sent by Mike Bratcher of the NMOCD on January 11, 2016:

- *“A Final Report C-141 would be accepted for record only. The release/site would be deferred and remain open in OCD database. It is also noted that this site is approximately 600 yards uphill from, and adjacent to a drainage feature, to the Pecos River.*
- *OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health, or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.”*

The following comments were provided by Shelly Tucker of the BLM in an email dated January 19, 2016:

- *“BLM concurs with the NMOCD. This site will be deferred for clean-up.”*

COG prepared a closure letter dated March 30, 2016 that included a Final C-141 form. The closure letter indicated that the proposed surface scrape had been completed over the release footprint.

The following comments are in response to the closure letter, from an email sent by Heather Patterson of the NMOCD on April 4, 2016:

- *“The OCD cannot accept your closure request for the above listed site. In addition, a deferral for this release is problematic. In general, a deferral is granted for releases that occur on location that can be tracked till site abandonment. With a release in the pasture, there is no effective end date at which remediation can be expected. The OCD also requires a full vertical and horizontal delineation before a site ranking can be assigned and a deferral granted.*
- *OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.”*

The surface scrape extent is presented in Figure 4. Copies of the 2016 COG Work Plan, associated laboratory analytical data, and related regulatory correspondence are included in Appendix B.

BBC REMEDIAL ACTION (COINCIDENT RELEASE REMEDIATION) AND 2019 CLOSURE REPORT

As mentioned, the vicinity of the West Brushy 8 Federal SWD #001 was subject to numerous releases from the years of 2015 to 2018. Based on available correspondence, BBC elected to address multiple release extents on behalf of COG in one remedial action.

The remedial activities were conducted in the second half of 2018. BBC then submitted a Closure Report which incorporated remedial actions covering differing portions of four individual releases which were documented over the three-year period. The 2019 BBC Closure Report contains photographic documentation of remedial activities that were executed per reportedly approved work plans.

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ConocoPhillips

The 2019 BBC Closure Report for four separate releases that occurred at the West Brushy 8 Federal SWD #001 Site, including Incident nAB1529948530, was submitted on January 22, 2019. The 2019 BBC Closure Report was rejected by NMOCD for Incident nAB1529948530 on May 1, 2023 with the following comments:

- *“Closure/deferral was rejected for this release in 2016 based on the location of the release and the release not being fully delineated. There are numerous releases that have occurred at this site and have not been closed. If there was overlap of the releases, the approved workplans will need to be provided as stated in this closure report.*
- *Submit a complete report through the OCD Permitting website by 8/1/2023.*
- *2RP-3353 closed. Refer to incident #NAB1529948530 in all future correspondence.”*

A copy of the 2019 BBC Closure Report and NMOCD rejection is included in Appendix C.

EVALUATION OF REMEDIAL ACTION

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

Tetra Tech personnel visited the release Site in February and August 2023 in order to geolocate the photographs of excavated and backfilled areas included in the Closure Report and to determine current site conditions. The remediated area presented in Figure 4 were identified in the field based on the figure included in the approved Work Plan and Closure Report and corroborated by the photographs included in the Closure Report as well as observations made during the 2023 visual site inspections. The remediated area is located in an active production area with numerous surface lines, overhead power lines, and vehicular traffic corridors. Vegetative growth was observed in portions of the remediated extent, and no staining or other visible evidence of the release were present at the time of the site visit. Photographic documentation of the 2018 remedial activities and the 2023 site conditions is presented in Appendix D.

2023 CLOSURE REQUEST AND NMOCD REJECTION

A Revised Closure Report dated October 30, 2023 was prepared by Tetra Tech following the February and August 2023 Site visits. ConocoPhillips requested closure for this incident based on the current site conditions and documentation of the previous remedial work completed. The NMOCD rejected the Revised Closure Request in an email dated November 30, 2023 for the following reason:

- *“Closure denied. Photo documentation and visual inspections are not accepted in place of laboratory reports. The release is subject to 19.15.29.12 E NMAC and cannot be closed until all conditions are met. Submit a report via the OCD permitting portal by February 21, 2024.”*

A copy of the regulatory correspondence is included in Appendix E.

SITE CHARACTERIZATION

The Site Characterization performed by COG at the time of the assessment (and ensuing proposed Work Plan) established a depth to groundwater at 75 feet bgs based on the NMOSE reporting system. This Site Characterization was accepted when the Work Plan was approved.

Given the age of the release and the associated actions, a contemporized site characterization was performed for the release footprint. The Site assessment and remediation activities are described in subsequent sections of this report.

A contemporaneous site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, streams, wetlands, incorporated

municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The Site is in an area of medium karst potential. The Pecos River is located approximately 1,800 feet northwest of the Site. Two OSE stream bodies are located approximately 600 and 1000 feet from the release areas, respectively.

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

REGULATORY FRAMEWORK

Based upon the lack of groundwater data within a ½ mile radius and the proximity to the Pecos River and stream bodies, in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization, depth to groundwater, and in accordance with Table I of 19.15.29.12 NMAC, the recommended remedial action levels (RRALs) for the Site are as follows:

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

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

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH	100 mg/kg

2023-2024 ADDITIONAL ASSESSMENT ACTIVITIES

Tetra Tech conducted additional assessment sampling at the Site on behalf of ConocoPhillips in order to evaluate current soil concentrations and confirm the reported remedial actions taken at the nAB1529948530 release Site, as well as the two adjacent and overlapping historical releases (incident IDs nAB1715742101 and nAB1619432451). The nAB1619432451 release extent largely encompasses both of the other two historical release footprints. On September 21, 2023 Tetra Tech installed fifteen (15) hand auger borings (AH-23-1 through AH-23-15) to depths ranging from 1 to 4 feet bgs in a cross section pattern across the release extent of the overlapping nAB1715742101 incident.

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

In coordination with all third-party utility operators in the area, Tetra Tech personnel returned to the Site on January 4-5, 2024 to install an additional sixteen (16) soil trenches (T-24-1 through T-24-16) and four (4) hand auger borings (H-24-1 through H-24-4).

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

All 2023-2024 sampling locations are presented along with the nAB1715742101 and nAB1619432451 release incident extents in Figure 5. Photographic documentation from the 2023-2024 assessment activities is included as Appendix D.

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

SUMMARY OF SAMPLING RESULTS

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

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

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

REMEDIATION WORK PLAN

Based on the site characterization, the collected analytical results, and the NMOCD rejection of the 2019 BBC Closure request, ConocoPhillips proposes to remove the impacted material as indicated in Figure 6. The proposed remedial action addresses the nAB1529948530 incident, which is the subject of this report, as well as the two adjacent and overlapping historical releases (incident IDs nAB1715742101 and nAB1619432451). Work plans for these other two releases have been previously submitted to the NMOCD and the proposed remedial action has been approved.

Impacted soils will be excavated to a maximum depth of 1 foot below surface grade in the areas characterized by sample locations T-24-6, T-24-10, T-24-13, T-24-14, and T-24-15 or until a representative sample from the excavation floor is below the applicable reclamation limit or RRAL for chloride. Impacted soils will be excavated to a maximum depth of 4 feet below surface grade in the areas characterized by sample locations T-24-1 through T-24-5, T-24-7, T-24-11, and T-24-16.

Heavy equipment (backhoe and trackhoe) will be utilized to excavate areas outside the immediate vicinity of pressurized lines and will come no more than 4 feet from any pressurized lines. Impacted soils within the vicinity of the surface and subsurface lines will be removed to the maximum extent practicable using non-aggressive excavation methods.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. In accordance with subsection D of 19.15.29.12 NMAC, the responsible party will notify the appropriate division district office prior to conducting confirmation sampling. Confirmation bottom and sidewall samples representative of no more than 400 square feet will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. Once results are received, the excavation will then be backfilled

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April 18, 2024

ConocoPhillips

with clean material to surface grade. The estimated volume of material to be remediated is approximately 1,920 cubic yards.

SITE RECLAMATION AND RESTORATION PLAN

Once acceptable confirmation sample results are received, the excavation area will then be backfilled with clean topsoil to surface grade. The backfilled areas within pasture areas will be seeded to aid in revegetation. Based on the location of the Site, the seed mixture for LPC Sand/Shinnery Sites will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the BLM will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The BLM seed mixture details and corresponding pounds pure live seed per acre are included in Appendix H.

LAND OWNERSHIP AND CULTURAL REVIEW

The Site is located on federal lands managed by the BLM. As stated in the approved work plans for the two related release incidents (nAB1715742101 and nAB1619432451), copies of the plans were submitted to the BLM for concurrent approval following approval by the NMOCD. Upon review, the BLM determined that the release occurred within an area not covered under a previous archeological survey, and that a full survey is required for the areas that will be disturbed. The remedial action may proceed following the completion of the archeological survey. The field portion of the archeological survey has been conducted and reporting will be finalized as soon as possible by the cultural subcontractor.

Tetra Tech submitted an extension request on behalf of ConocoPhillips to conduct the archeological survey and complete the revised report. In an email dated February 23, 2024, the NMOCD approved the extension request to April 21, 2024. A copy of the regulatory correspondence is included in Appendix E.

CONCLUSION


Based on the results of the additional release delineation activities, and pending the results of the archaeological survey, ConocoPhillips will remediate impacted areas to 4 feet bgs, as indicated in Figure 6. Horizontal and vertical delineation of the release extent using Table I of 19.15.29.12 NMAC constituents was achieved in accordance with 19.15.29.11(5) NMAC as a result of the 2023-2024 sampling events.

The proposed remediation activities will be conducted within 90 days of acceptance of the proposed plan and completion of the required archeological survey. If you have any questions concerning the additional assessment activities for the Site or the proposed remediation work plan, please call me at (512) 338-2861.

Sincerely,
Tetra Tech, Inc.



Samantha K. Abbott, P.G.
Project Manager



Christian M. Llull, P.G.
Program Manager

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

Remediation Work Plan
April 18, 2024

ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Site Assessment
- Figure 4 – Remediation Extents and Initial Scrape (COG)

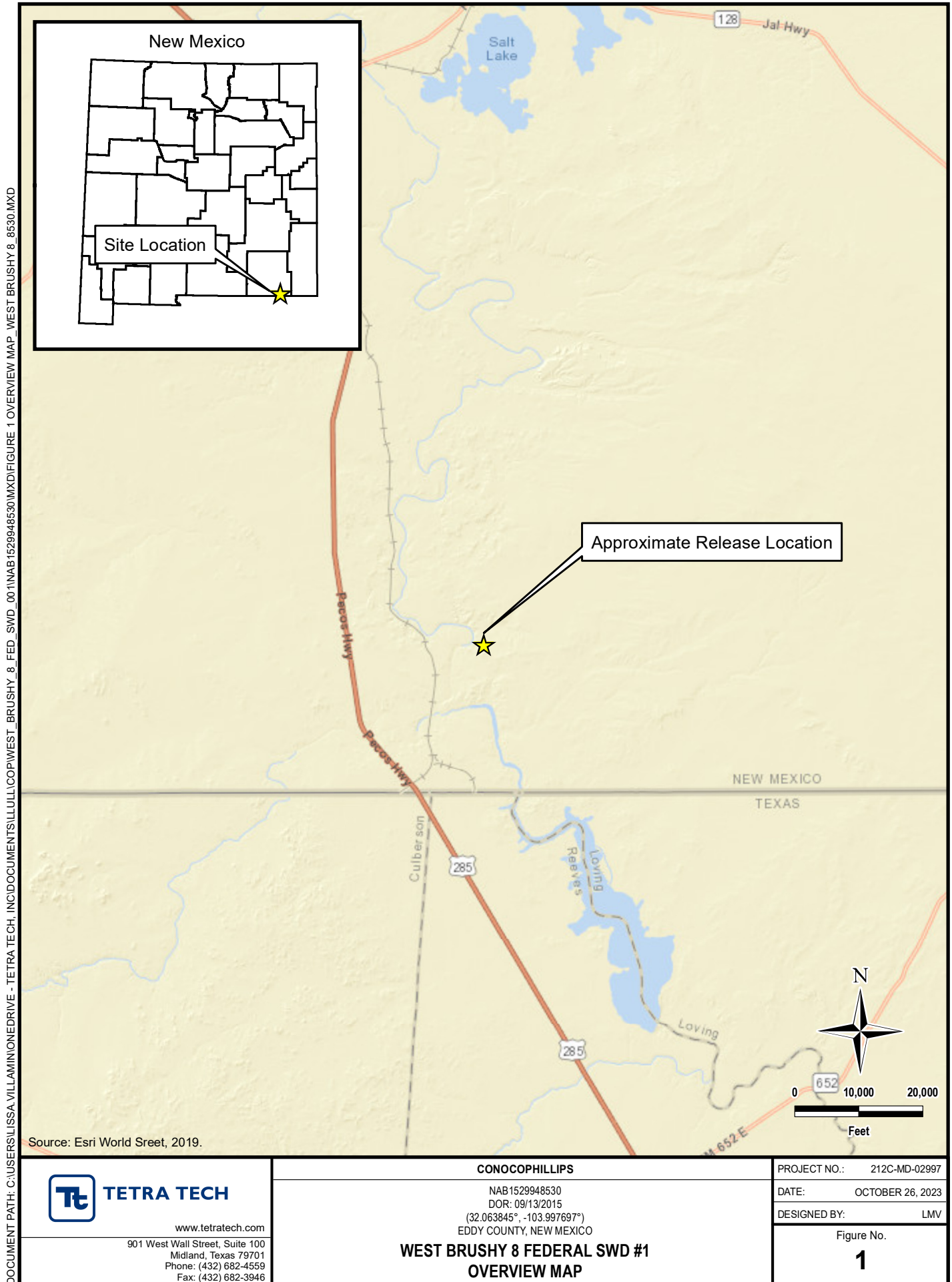
Tables:

- Table 1 – Summary of Analytical Results – Soil Assessment

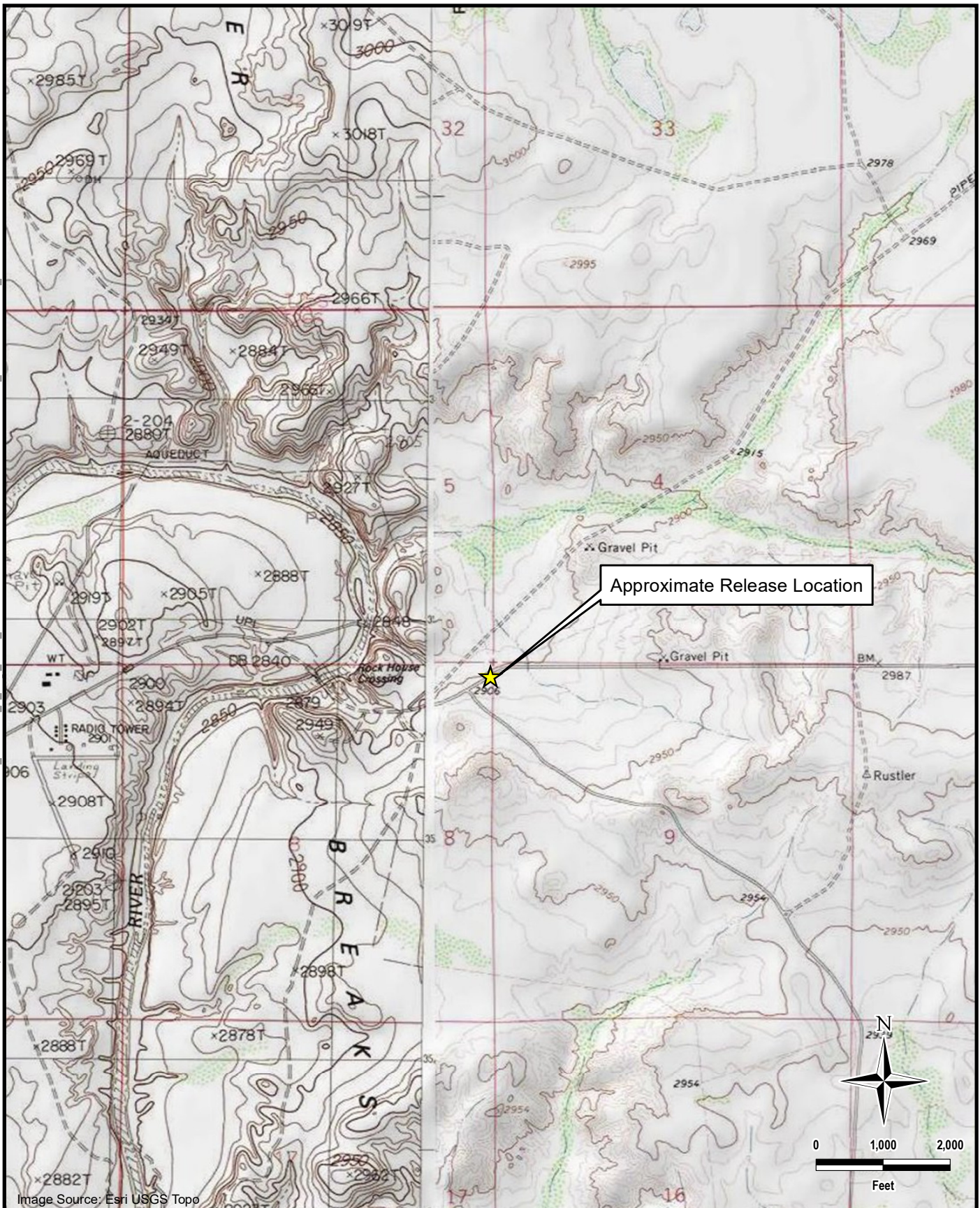
Appendices:

- Appendix A – C-141 Form
- Appendix B – 2016 COG Work Plan and Closure Letter
- Appendix C – 2019 BBC Closure Report
- Appendix D – Photographic Documentation
- Appendix E – Regulatory Correspondence
- Appendix F – Site Characterization Data
- Appendix G – Laboratory Analytical Data
- Appendix H – Seed Mix Details

FIGURES



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**TETRA TECH**

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CONOCOPHILLIPS

NAB1529948530
DOR: 09/13/2015
(32.063845°, -103.997697°)
EDDY COUNTY, NEW MEXICO

**WEST BRUSHY 8 FEDERAL SWD #1
TOPOGRAPHIC MAP**

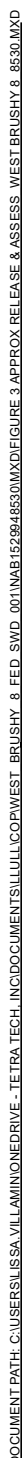
PROJECT NO.: 212C-MD-02997

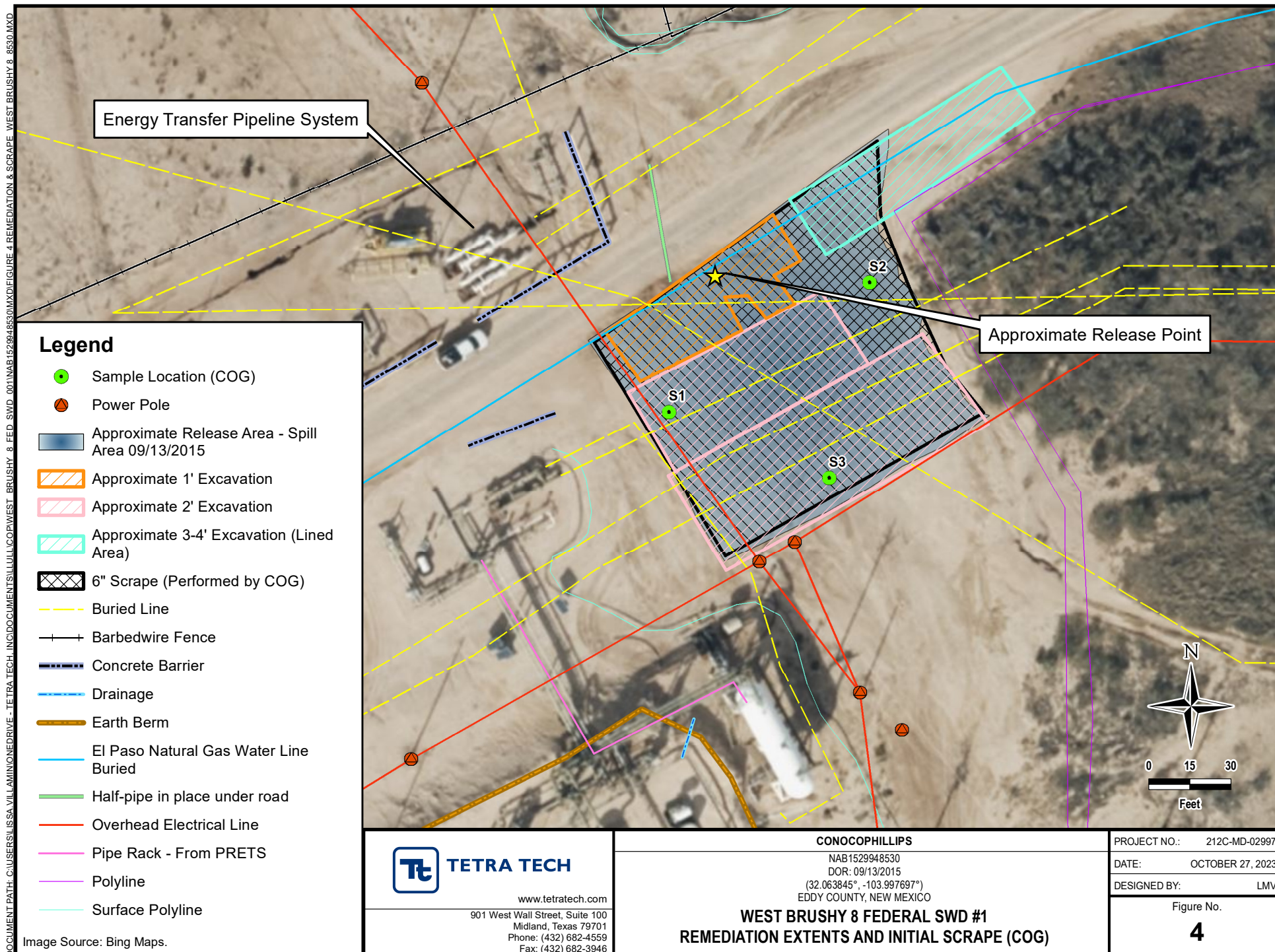
DATE: OCTOBER 26, 2023

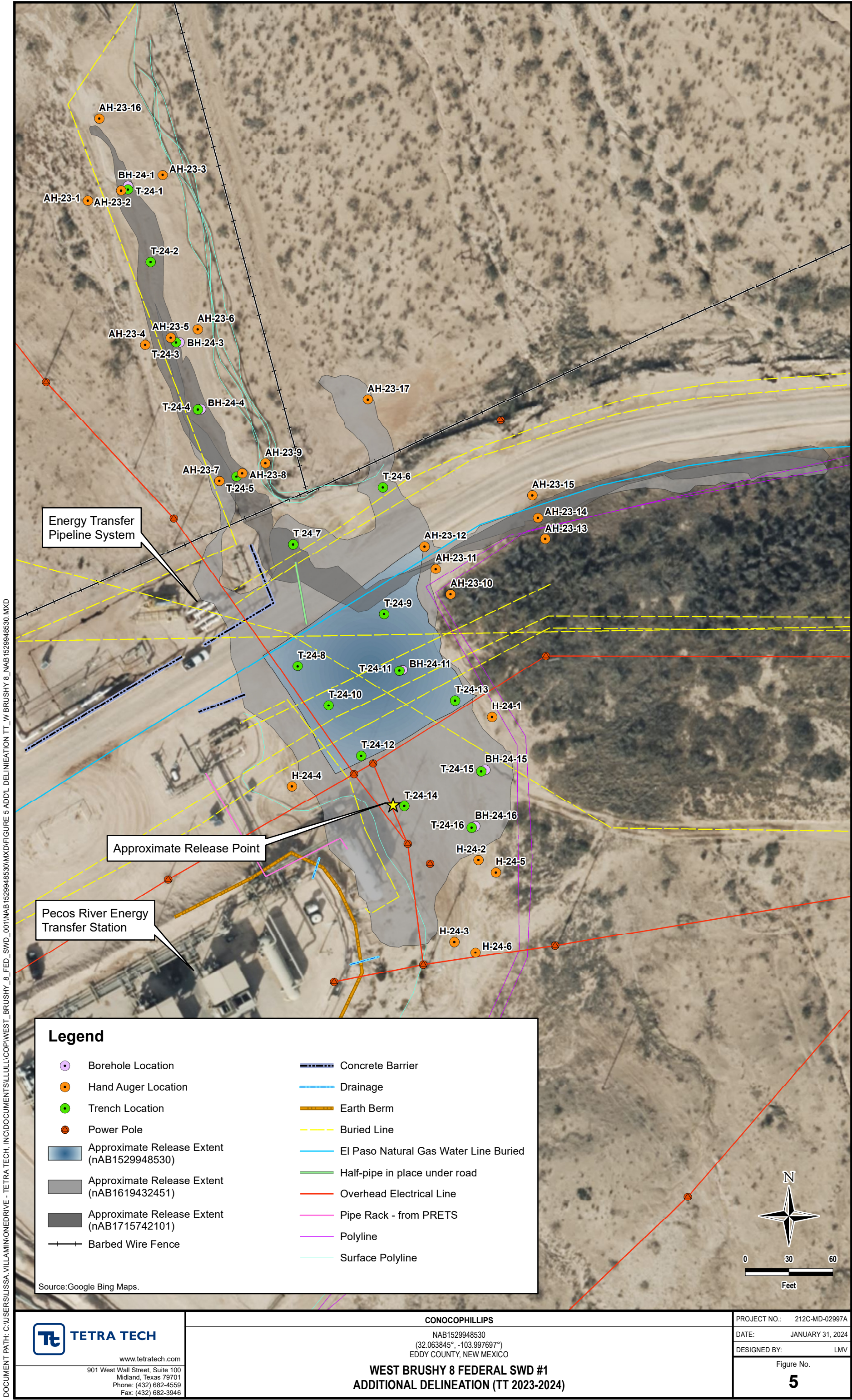
DESIGNED BY: LMV

Figure No.

2







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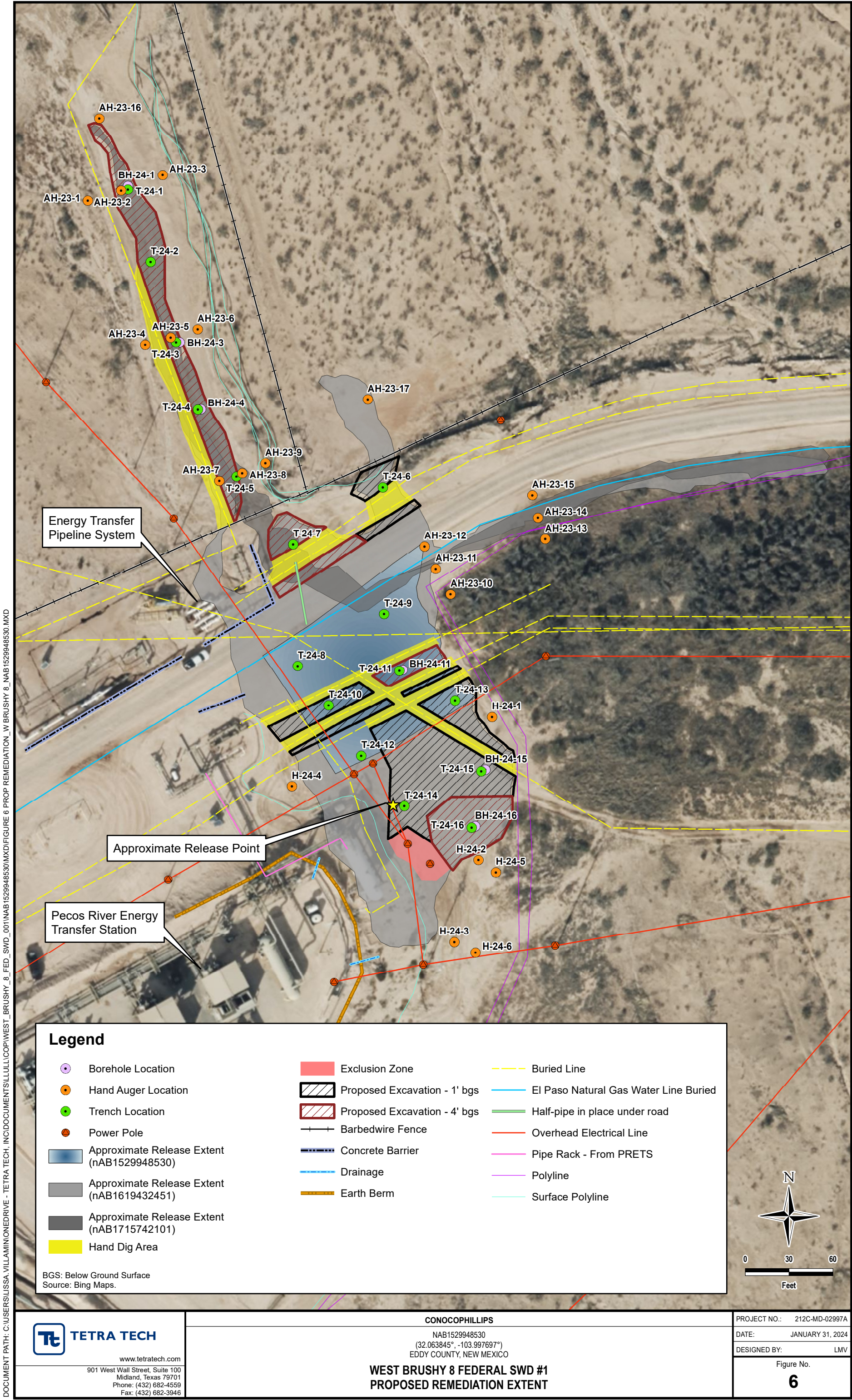
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CONOCOPHILLIPS
NAB1529948530
(32.063845°, -103.997697°)
EDDY COUNTY, NEW MEXICO


WEST BRUSHY 8 FEDERAL SWD #1
ADDITIONAL DELINEATION (TT 2023-2024)

PROJECT NO.: 212C-MD-02997A
DATE: JANUARY 31, 2024
DESIGNED BY: LMV

Figure No.
5



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CONOCOPHILLIPS
NAB1529948530
(32.063845°, -103.997697°)
EDDY COUNTY, NEW MEXICO

**WEST BRUSHY 8 FEDERAL SWD #1
PROPOSED REMEDIATION EXTENT**

PROJECT NO.: 212C-MD-02997A
DATE: JANUARY 31, 2024
DESIGNED BY: LMV

Figure No.
6

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2015 COG SOIL ASSESSMENT- nAB1529948530
CONOCOPHILLIPS
WEST BRUSHY 8 FEDERAL SWD #1
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹
		ft. bgs	mg/kg
S1	10/15/2015	SURFACE	528
		1	4,000
S2	10/15/2015	SURFACE	2,930
		1	304
S3	10/15/2015	SURFACE	2,130
		1	4,240

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

1 Method SM4500CI-B

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

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride		BTEX ²										TPH ³								
			ExStik	Titration			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		(GRO+DRO)	Total TPH (GRO+DRO+EXT DRO)	
		mg/kg			Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q				
																						ft. bgs			ppm
		Reclamation Limit for Soils 0-4' bgs:	--		600 mg/kg		10 mg/kg		--		--		--		50 mg/kg		--		--		--		--		100 mg/kg
		RRAL for Soils >4' bgs (GW 50-100 ft):	--		10,000 mg/kg		10 mg/kg		--		--		--		50 mg/kg		--		--		--		1,000 mg/kg		2,500 mg/kg
AH-23-1	9/21/2023	0-1	392	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		19.1		-	19.1	
AH-23-2	9/21/2023	0-1	2230	-	2,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
		2-3	2690	-	2,080		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		27.5		<10.0		27.5	27.5	
T-1	11/30/2023	0-1	627	-	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
T-24-1	1/4/2024	3-4	2,080	-	1,630		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
		5-6	1,130	-	928		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
		6-7	1,110		1,020		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
BH-24-1	1/10/2024	7-8	-	500	512		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
		8-9	1,130	600	912		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
		9-10	1,080	400	1,090		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
AH-23-3	9/21/2023	0-1	267	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
T-24-2	1/4/2024	0-1	4,670	-	4,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
		2-3	1,840	-	1,700		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
		3-4	2,950	-	2,440		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
		5-5.5	1,660	-	768		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
AH-23-4	9/21/2023	0-1	369	-	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
AH-23-5	9/21/2023	0-1	1560	-	928		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
		2-3	4950	-	3,760		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
T-24-3	1/4/2024	3-4	3,940	-	4,080		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
		5-6	3,060	-	3,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
		6-7	2,420	-	2,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
		7-7.5	1,670	-	1,140		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
BH-24-3	1/10/2024	8-9	1,620	900	976		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
		9-10	1,550	600	768		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		90.7		98.1		90.7	188.8	
		10-11	958	400	656		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
AH-23-6	9/21/2023	0-1	284	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
T-24-4	1/4/2024	0-1	1,950	-	1,090		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
		2-3	1,990	-	1,550		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
		3-4	2,730	-	3,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
		5-6	2,420	-	2,240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
		6-7	2,210	-	1,150		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
BH-24-4	1/10/2024	9-10	1,280	800	1,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	
		10-11	1,170	400	608		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0	

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

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride		BTEX ²										TPH ³									
			ExStik	Titration			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		(GRO+DRO)	Total TPH (GRO+DRO+EXT DRO)		
		mg/kg			Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q					
																						ft. bgs			ppm	mg/kg
		Reclamation Limit for Soils 0-4' bgs:	--	600 mg/kg	10 mg/kg	--	--	50 mg/kg	--	--	--	50 mg/kg	--	--	--	--	--	--	--	--	--	1,000 mg/kg	2,500 mg/kg			
RRAL for Soils >4' bgs (GW 50-100 ft):	--	10,000 mg/kg	10 mg/kg	--	--	50 mg/kg	--	--	--	50 mg/kg	--	--	--	--	--	--	--	--	--	1,000 mg/kg	2,500 mg/kg					
AH-23-7	9/21/2023	0-1	465	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
AH-23-8	9/21/2023	0-1	2530	-	2,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		43.1		<10.0		43.1	43.1		
		2-3	3420	-	2,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		3-4	4380	-	3,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
T-5	11/30/2023	0-1	-	-	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
AH-23-9	9/21/2023	0-1	468	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
T-24-6	1/5/2024	0-1	-	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		211		<10.0		211	211		
		1-2	404	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		11.2		<10.0		11.2	11.2		
T-24-7	1/5/2024	0-1	4,520	-	2,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		2-3	-	-	4,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		3-4	-	-	1,800		<0.050		<0.050		<0.050	GC-NC	0.271	GC-NC1	<0.300		21.2		45.9		<10.0		67.1	67.1		
		5-6	669	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		6-7	407	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
AH-23-10	9/21/2023	0-1	580	-	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
AH-23-11	9/21/2023	0-1	416	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		2-3	353	-	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
AH-23-12	9/21/2023	0-1	792	-	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
AH-23-13	9/21/2023	0-1	216	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
AH-23-14	9/21/2023	0-1	198	-	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		2-3	286	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
AH-23-15	9/21/2023	0-1	392	-	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
AH-23-16	11/30/2023	0-1	379	-	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
AH-23-17	11/30/2023	0-1	-	-	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
T-24-5	1/4/2024	3-4	1,750	-	1,140	QM-07	<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		5-6	1,770	-	736		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		6-7	1,040	-	800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
T-24-8	1/5/2024	0-1	1,510	-	496		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		2-3	1,110	-	464		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		3-4	469	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
T-24-9	1/5/2024	0-1	857	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		2-3	415	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
T-24-10	1/5/2024	0-1	1,140	-	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		2-3	310	-	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		

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

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride		BTEX ²										TPH ³									
			ExStik	Titration			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		(GRO+DRO)	Total TPH (GRO+DRO+EXT DRO)		
		mg/kg			Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q					
																						ft. bgs			ppm	mg/kg
		Reclamation Limit for Soils 0-4' bgs:	--	600 mg/kg	10 mg/kg	--	--	50 mg/kg	--	--	50 mg/kg	--	--	50 mg/kg	--	--	50 mg/kg	--	--	--	--	100 mg/kg				
RRAL for Soils >4' bgs (GW 50-100 ft):	--	10,000 mg/kg	10 mg/kg	--	--	50 mg/kg	--	--	50 mg/kg	--	--	50 mg/kg	--	--	50 mg/kg	--	--	--	1,000 mg/kg	2,500 mg/kg						
T-24-11	1/5/2024	0-1	1,260	-	784		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		2-3	2,410	-	1,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		3-4	1,310	-	608		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
BH-24-11	1/10/2024	4-5	1,820	600	1,710		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		5-6	2,160	800	1,460		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		8-9	1,300	575	1,070		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
T-24-12	1/5/2024	0-1	536	-	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
T-24-13	1/5/2024	0-1	3,690	-	4,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		2-3	248	-	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
T-24-14	1/5/2024	0-1	1,030	-	944		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	QM-07	<10.0		<10.0		-	<10.0		
		2-3	252	-	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
T-24-15	1/5/2024	0-1	1500	-	1,470		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		1-2	1,050	-	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
BH-24-15	1/10/2024	2-3	873	300	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		3-4	1,230	350	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		5-6	1,040	200	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		6-7	898	200	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
T-24-16	1/5/2024	0-1	2,470	-	2,160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		2-3	3,730	-	3,240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		3-4	3,390	-	3,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		5-6	1,940	-	1,010		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
B-24-16	1/10/2024	6-7	1,890	800	1,090		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		7-8	2,040	600	1,010		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		8-9	1,690	840	1,020		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		9-10	1,470	580	896		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
		14-15	1,580	400	1,100		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
H-24-1	1/5/2024	0-1	334	-	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
H-24-2	1/5/2024	0-1	1,760	-	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
H-24-3	1/5/2024	0-1	1,180	-	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		
H-24-4	1/5/2024	0-1	310	-	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	<10.0		

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500CI-B

2 Method 8021B

3 Method 8015M

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

QUALIFIERS:

QM-07 The spike recovery was outside of lab established statistical control limits but still within method limits. Data is not adversely affected.

GC-NC 8620 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND (not detected at or above the reporting limit).

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

APPENDIX A

Initial C-141 Form

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

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NAB1529948530 **229137**

Name of Company: COG Operating LLC		Contact: Robert McNeill	
Address: 600 West Illinois Avenue, Midland TX 79701		Telephone No. 432-230-0077	
Facility Name: West Brushy 8 Federal SWD #1		Facility Type: SWD	
Surface Owner: Federal		Mineral Owner: Federal	API No. 30-015-31675

OPERATOR

☒ Initial Report ☐ Final Report

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	8	26S	29E	660	North	330	East	Eddy

Latitude 32.0625249053514 Longitude -103.99867482237

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 30 bbls	Volume Recovered: 3 bbls
Source of Release: Poly Flowline	Date and Hour of Occurrence: 9/13/2015 3:00 pm	Date and Hour of Discovery: 9/13/2015 3:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher - OCD / James Amos - BLM	
By Whom? Amanda Trujillo	Date and Hour: Tue 9/15/2015 6:05 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 23 2015

RECEIVED

If a Watercourse was Impacted, Describe Fully.*

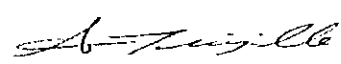
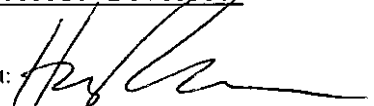
Describe Cause of Problem and Remedial Action Taken.*

This release was caused by a poly flowline damaged by a crew working in the area. Vacuum truck trucks were dispatched to remove all standing fluid.

Describe Area Affected and Cleanup Action Taken.*

The impacted area is located in the pasture alongside the road. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Amanda Trujillo Davis	Approved by Environmental Specialist: 	
Title: Senior Environmental Coordinator	Approval Date: 10/26/15	Expiration Date: N/A
E-mail Address: atrujillo@concho.com	Conditions of Approval:	
Date: October 24, 2015 Phone: 575-748-6940	Remediation per O.C.D. Rules & Guidelines SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 11/26/15	

* Attach Additional Sheets If Necessary

Attached ☐

22P-3353

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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

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

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

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

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:  _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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 confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature:  _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

APPENDIX B

2016 COG Work Plan and Closure Letter



Lupe Carrasco
Environmental Coordinator

January 11, 2016

Oil Conservation Division
District 2 – Artesia
811 S. First St.
Artesia, NM 88210

Re: West Brushy 8 Federal SWD #1
30-015-31675
Sec. 8, T26S-R29E
Eddy County, NM

Mr. Mike Bratcher,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is in response to the C-141 Initial report dated September 13, 2015.

Background

The release was caused by a poly flow line that was damaged by crews working in the area resulting in the estimated release of 30 barrels of produced water of which 3 barrels were recovered. The release misted out of the flow line and the attached site diagram depicts the approximate area impacted (100' x 100'). The impacted area consists of several surface flow lines and several buried high pressure gas lines along with a produced water line and overhead power lines. The buried gas lines pertain to the neighboring compressor station and form a highly sensitive area in respect to potential safety hazards.

Groundwater

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of Zero with depth to groundwater at greater than 100'. The information obtained through the New Mexico Office of the State Engineer shows the average depth to ground water at ~75 feet for a well drilled in Unit M of Section 5 which is on the west side of the river and 1 mile west of the release area classifying the area at a site ranking of Ten.

Soil Assessment and Analytical Results

Sample points noted on the attached Site Diagram were taken with a hand auger and were only taken to a depth of 1' due to the unknown depth of the buried gas lines and the

CORPORATE ADDRESS
One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701
PHONE 432.683.7443 | FAX 432.683.7441

LOCAL ADDRESS
Concho West | 2208 Main Street | Artesia, New Mexico 88210
PHONE 575.748.6940 | FAX 575.746.2096

lack of representation from the respective gas companies at the time of sampling. Below is a summary of the analytical results:

S1	Cl-
S	528
1'	4000
S2	Cl-
S	2930
1'	304
S3	Cl-
S	2130
1'	4240

Work Plan

COG Operating LLC proposes that no excavation other than a surface scrape be required due to the high risk hazards in the area. The area consists of three high pressure gas lines associated with the neighboring compressor station, a water line, a crude oil line that runs east and west, and overhead power lines. At a site ranking of Zero with depth to ground water at greater than 100', chlorides left in place pose no threat to ground water.

If there are no objections, COG Operating LLC will submit for closure based on approval of this work plan. Please feel free to contact me with any questions or concerns at (575) 689-3100.

Sincerely,

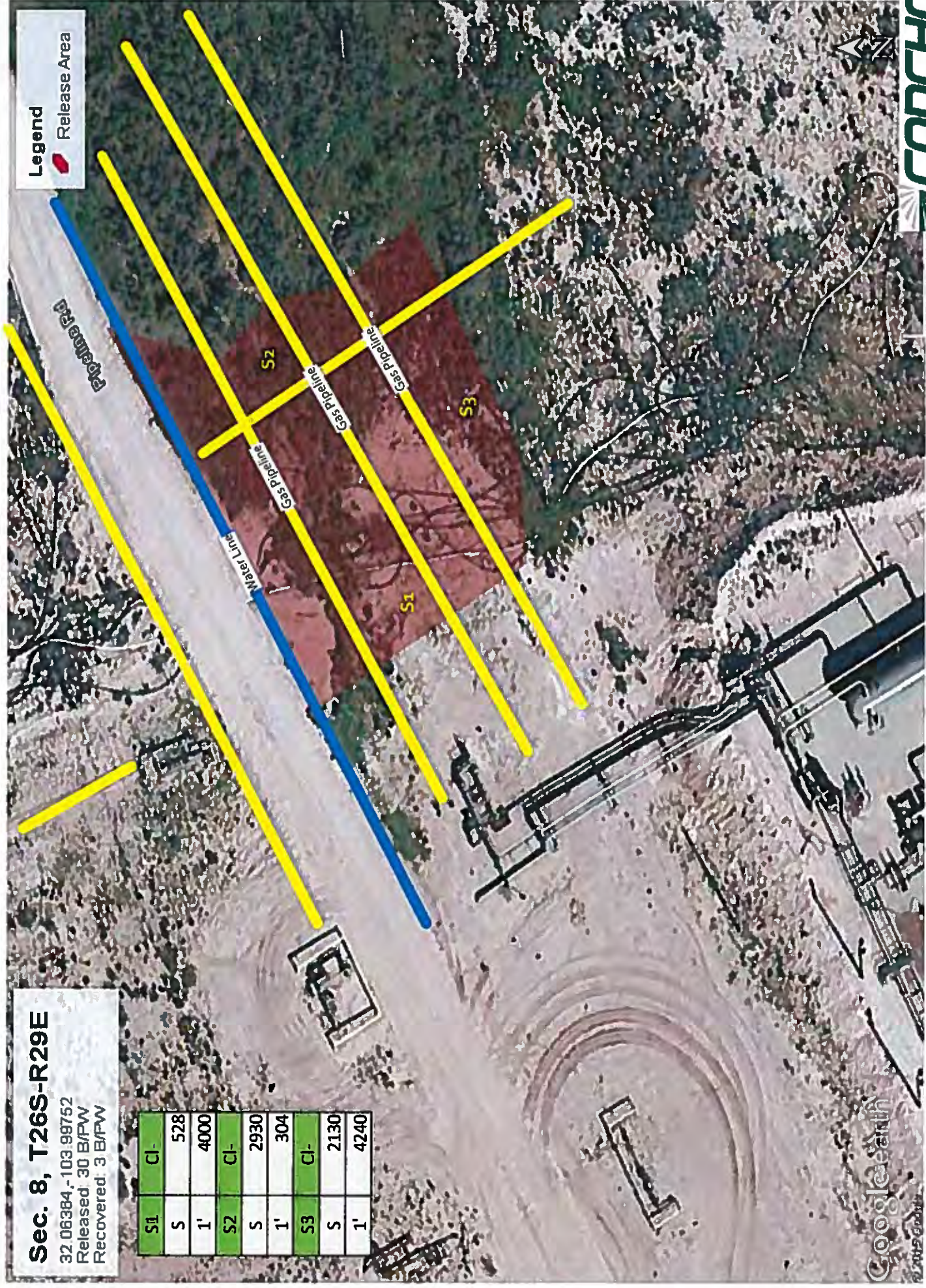


Lupe Carrasco
Environmental Coordinator

Enclosure(s): Site Diagram
Analytical Results
C-141 Initial (Copy)

September 15, 2015

West Brushy 8 SWD #1



Sec. 8, T26S-R29E
32 06384.-103 99752
Released: 30 B/PW
Recovered: 3 B/PW

S1	CI-
S	528
1'	4000
S2	CI-
S	2930
1'	304
S3	CI-
S	2130
1'	4240





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

October 23, 2015

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: WEST BRUSHY

Enclosed are the results of analyses for samples received by the laboratory on 10/21/15 15:13.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 10/21/2015
Reported: 10/23/2015
Project Name: WEST BRUSHY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/15/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S1-S (H502750-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	10/23/2015	ND	432	108	400	3.77	

Sample ID: S1-1' (H502750-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	10/23/2015	ND	432	108	400	3.77	

Sample ID: S2-S (H502750-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2930	16.0	10/23/2015	ND	432	108	400	3.77	

Sample ID: S2-1' (H502750-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/23/2015	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 10/21/2015
Reported: 10/23/2015
Project Name: WEST BRUSHY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/15/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Judy Garcia

Sample ID: S3-S (H502750-05)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2130	16.0	10/23/2015	ND	432	108	400	3.77	

Sample ID: S3-1' (H502750-06)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	10/23/2015	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

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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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: COG Operating LLC

Project Manager: Lupe Carrasco

Address: 2208 West Main

City: Artesia

Phone #: (575) 748-6940

Project #:

Project Name: West Brushy

Project Location:

Sampler Name: Lupe Carrasco

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: COG Operating LLC

Attn: Robert McNeill

Address: 600 W Illinois

City: Midland

State: TX Zip: 79701

Phone #: (432) 221-0388

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	BTEX	TPH	Chloride								
	S1-S	X		GROUNDWATER			10/15/15				X								
	S1-1'	X		WASTEWATER			10/15/15				X								
	S2-S	X		SOIL			10/15/15				X								
	S2-1'	X		OIL			10/15/15				X								
	S3-S	X		SLUDGE			10/15/15				X								
	S3-1'	X		OTHER			10/15/15				X								
				ACID/BASE															
				ICE / COOL															
				OTHER															

PLEASE NOTE: Liability and Damages. Cardinal's liability and damage recovery is limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be held liable for excluded or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services provided by Cardinal. The client agrees to hold Cardinal harmless from and defend Cardinal against any and all claims, damages, costs, expenses, attorney's fees and other costs of defense.

Relinquished By:

Date: 10/15/15
Time: 15:13

Relinquished By: *[Signature]*

Received By:

Date: 10/15/15
Time: 15:13

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

Received By: *[Signature]*

Date: 10/15/15
Time: 15:13

FORM-008 R2.0

Sample Condition
Cool (check)
☐ Yes ☐ No

CHECKED BY: *[Signature]*

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS: jccarrasco@concho.com
atruill@concho.com

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report


Name of Company: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077
Facility Name: West Brushy 8 Federal SWD #1	Facility Type: SWD
Surface Owner: Federal	Mineral Owner: Federal
API No. 30-015-31675	

LOCATION OF RELEASE

Unit Letter A	Section 8	Township 26S	Range 29E	Feet from the 660	North/South Line North	Feet from the 330	East/West Line East	County Eddy
------------------	--------------	-----------------	--------------	----------------------	---------------------------	----------------------	------------------------	----------------

Latitude 32.0625249053514 Longitude -103.99867482237

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 30 bbls	Volume Recovered: 3 bbls
Source of Release: Poly Flowline	Date and Hour of Occurrence: 9/13/2015 3:00 pm	Date and Hour of Discovery: 9/13/2015 3:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher – OCD / James Amos – BLM	
By Whom? Amanda Trujillo	Date and Hour: Tue 9/15/2015 6:05 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* This release was caused by a poly flowline damaged by a crew working in the area. Vacuum truck trucks were dispatched to remove all standing fluid.		
Describe Area Affected and Cleanup Action Taken.* The impacted area is located in the pasture alongside the road. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Amanda Trujillo Davis	Approved by Environmental Specialist:	
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:
E-mail Address: atrujillo@concho.com	Conditions of Approval:	
Date: October 24, 2015 Phone: 575-748-6940	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Monday, January 11, 2016 4:17 PM
To: 'Lupe Carrasco'; Patterson, Heather, EMNRD; James_Amos@blm.gov; Shelly Tucker
Cc: Amanda Trujillo Davis
Subject: RE: (Work Plan) West Brushy 8 SWD #1 (30-015-31675)

RE: COG * West Brushy 8 Fed SWD 1 * 30-015-31675
2RP-3353 * Date of release: 9/13/2015

Lupe,

A Final Report C-141 would be accepted for record only. The release/site would be deferred and remain open in OCD database. It is also noted that this site is approximately 600 yards uphill from, and adjacent to a drainage feature, to the Pecos River.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Lupe Carrasco [mailto:GCarrasco@concho.com]
Sent: Monday, January 11, 2016 2:04 PM
To: Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD; James_Amos@blm.gov; Shelly Tucker
Cc: Amanda Trujillo Davis
Subject: (Work Plan) West Brushy 8 SWD #1 (30-015-31675)

Mr. Bratcher/Mrs. Patterson,

Attached for your consideration is a work plan for the West Brushy 8 Federal SWD #1. Please feel free to contact me with any questions or concerns.

Thanks!

Lupe Carrasco
Environmental Coordinator
Concho Resources

Cell: 575-725-0787
Office: 575-748-6933
gcarrasco@concho.com

1401 Commerce Drive
Carlsbad, NM 88220



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From: Amanda Trujillo Davis
Sent: Friday, October 23, 2015 1:59 PM
To: Heather Patterson; Mike.Bratcher@state.nm.us; James.Amos@blm.gov; Shelly Tucker
Subject: (C-141 Initial) West Brushy 8 SWD #1 (30-015-31675)

Mr. Bratcher/Mr. Amos,

Attached is a C-141 Initial for your consideration. Please call me if you have any additional questions or concerns.

Thank you,

Amanda Trujillo Davis
Senior Environmental Coordinator
COG Operating LLC
Cell: 505.350.1336
Office: 575.748.6930
atrujillo@concho.com

2407 Pecos Ave.
Artesia , NM 88210



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From: Amanda Trujillo
Sent: Tuesday, September 15, 2015 6:05 PM
To: Heather Patterson; Mike.Bratcher@state.nm.us; James.Amos@blm.gov; Shelly Tucker
Subject: (Notification) West Brushy 8 SWD #1 (30-015-31675)

Mr. Bratcher,

COG Operating LLC is reporting a release on the West Brushy 8 SWD #1 (30-015-31675)
Unit A Section 8 Township 26S Range 29E
The release occurred at 3:00 pm on 9/13/2015.
Released: 30 bbls Produced Water
Recovered: 3 bbls PW

The release was caused by a poly flowline. The site is being evaluated for clean-up and a C-141 will be submitted. If you have any additional questions please feel free to contact me.

Thank you,

Amanda Trujillo

Senior Environmental Coordinator

COG Operating LLC

Cell: 505.350.1336

Office: 575.748.6930

atrujillo@concho.com

2407 Pecos Ave.

Artesia , NM 88210



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From: [Tucker, Shelly](#)
To: [Bratcher, Mike, EMNRD](#)
Cc: [Lupe Carrasco](#); [Patterson, Heather, EMNRD](#); James.Amos@blm.gov; [Amanda Trujillo Davis](#)
Subject: Re: (Work Plan) West Brushy 8 SWD #1 (30-015-31675)
Date: Tuesday, January 19, 2016 11:45:28 AM
Attachments: image001.png

BLM concurs with the NMOCD. This site will be deferred for clean-up.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
Bureau of Land Management

620 E. Greene St
Carlsbad, NM 88220

575.234.5905 - Direct
575.361.0084 - Cellular

stucker@blm.gov



The BLM acceptance/approval does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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On Mon, Jan 11, 2016 at 4:16 PM, Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> wrote:

RE: COG * West Brushy 8 Fed SWD 1 * 30-015-31675

2RP-3353 * Date of release: 9/13/2015

Lupe,

A Final Report C-141 would be accepted for record only. The release/site would be deferred and remain open in OCD database. It is also noted that this site is approximately 600 yards uphill from, and adjacent to a drainage feature, to the Pecos River.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher

NMOCD District 2

811 S. First Street

Artesia, NM 88210

O: 575-748-1283 X108

C: 575-626-0857

F: 575-748-9720

From: Lupe Carrasco [mailto:GCarrasco@concho.com]

Sent: Monday, January 11, 2016 2:04 PM

To: Patterson, Heather, EMNRD; Bratcher, Mike, EMNRD; James_Amos@blm.gov; Shelly Tucker

Cc: Amanda Trujillo Davis

Subject: (Work Plan) West Brushy 8 SWD #1 (30-015-31675)

Mr. Bratcher/Mrs. Patterson,

Attached for your consideration is a work plan for the West Brushy 8 Federal SWD #1.
Please feel free to contact me with any questions or concerns.

Thanks!

Lupe Carrasco

Environmental Coordinator

Concho Resources

Cell: 575-725-0787

Office: 575-748-6933

gcarrasco@concho.com

1401 Commerce Drive

Carlsbad, NM 88220



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From: Amanda Trujillo Davis

Sent: Friday, October 23, 2015 1:59 PM

To: Heather Patterson; Mike.Bratcher@state.nm.us; James_Amos@blm.gov; Shelly Tucker

Subject: (C-141 Initial) West Brushy 8 SWD #1 (30-015-31675)

Mr. Bratcher/Mr. Amos,

Attached is a C-141 Initial for your consideration. Please call me if you have any additional questions or concerns.

Thank you,

Amanda Trujillo Davis

Senior Environmental Coordinator

COG Operating LLC

Cell: 505.350.1336

Office: 575.748.6930

atrujillo@concho.com

2407 Pecos Ave.

Artesia , NM 88210



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From: Amanda Trujillo
Sent: Tuesday, September 15, 2015 6:05 PM
To: Heather Patterson; Mike.Bratcher@state.nm.us; James.Amos@blm.gov; Shelly Tucker
Subject: (Notification) West Brushy 8 SWD #1 (30-015-31675)

Mr. Bratcher,

COG Operating LLC is reporting a release on the West Brushy 8 SWD #1 (30-015-31675)

Unit A Section 8 Township 26S Range 29E

The release occurred at 3:00 pm on 9/13/2015.

Released: 30 bbls Produced Water

Recovered: 3 bbls PW

The release was caused by a poly flowline. The site is being evaluated for clean-up and a C-141 will be submitted. If you have any additional questions please feel free to contact me.

Thank you,

Amanda Trujillo

Senior Environmental Coordinator

COG Operating LLC

Cell: 505.350.1336

Office: 575.748.6930

atrujillo@concho.com

2407 Pecos Ave.

Artesia , NM 88210



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From: [Robert Grubbs](#)
To: [Bratcher, Mike, EMNRD](#); [Patterson, Heather, EMNRD](#); ["james_amos@blm.gov" \(james_amos@blm.gov\)](mailto:james_amos@blm.gov); ["stucker@blm.gov"](mailto:stucker@blm.gov)
Subject: (Closure) West Brushy 8 SWD #1 (30-015-31675)
Date: Wednesday, March 30, 2016 8:31:53 AM
Attachments: image002.png
(Closure) West Brushy 8 Federal SWD #1.pdf

MR. BRATCHER,

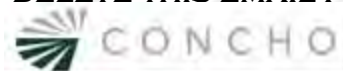
ATTACHED FOR YOUR CONSIDERATION IS A COPY OF A CLOSURE LETTER ALONG WITH A C-141 FINAL FOR THE WEST BRUSHY 8 SWD #1. PLEASE FEEL FREE TO CONTACT ME WITH ANY QUESTIONS OR CONCERNS.

THANK YOU,

ROBERT GRUBBS JR.
SR. ENVIRONMENTAL COORDINATOR

432.683.7443 (MAIN)
432.818.2369 (DIRECT)
432.661.6601 (CELL)
432.221.0892 (FAX)
RGRUBBS@CONCHO.COM
MAILING ADDRESS:
ONE CONCHO CENTER
600 W. ILLINOIS AVENUE
MIDLAND, TEXAS 79701

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Robert Grubbs Jr.
Senior Environmental Coordinator

March 24, 2016

Oil Conservation Division
District 2 – Artesia
811 S. First St.
Artesia, NM 88210

Re: West Brushy 8 Federal SWD #1
30-015-31675
Sec. 8, T26S-R29E
Eddy County, NM

Mr. Mike Bratcher,

COG Operating LLC would like to submit the enclosed document for closure of the above captioned well. The plan is in response to the C-141 Initial report dated September 13, 2015.

All work has been completed in accordance with the approved work plan submitted to the NMOCD and BLM.

A signed C-141 Final is enclosed for your consideration. Please feel free to contact me with any questions or concerns at (432) 683-7443.

Sincerely,

Robert Grubbs Jr.
Senior Environmental Coordinator

Enclosure(s): C-141 Final

CORPORATE ADDRESS
One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701
PHONE 432.683.7443 | FAX 432.683.7441

LOCAL ADDRESS
Concho West | 2208 Main Street | Artesia, New Mexico 88210
PHONE 575.748.6940 | FAX 575.746.2096

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

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077
Facility Name: West Brushy 8 Federal SWD #1	Facility Type: SWD
Surface Owner: Federal	Mineral Owner: Federal
API No. 30-015-31675	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	8	26S	29E	660	North	330	East	Eddy

Latitude 32.0625249053514 Longitude -103.99867482237

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 30 bbls	Volume Recovered: 3 bbls
Source of Release: Poly Flowline	Date and Hour of Occurrence: 9/13/2015 3:00 pm	Date and Hour of Discovery: 9/13/2015 3:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher – OCD / James Amos – BLM	
By Whom? Amanda Trujillo	Date and Hour: Tue 9/15/2015 6:05 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* This release was caused by a poly flowline damaged by a crew working in the area. Vacuum truck trucks were dispatched to remove all standing fluid.		
Describe Area Affected and Cleanup Action Taken.* The impacted area is located in the pasture alongside the road. Concho completed the scope of work outlined in the NMOCD approved work plan.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Robert Grubbs Jr.	Approved by Environmental Specialist:	
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:
E-mail Address: rgrubbs@concho.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: March 10, 2016 Phone: 432-683-7443		

* Attach Additional Sheets If Necessary

From: Patterson, Heather, EMNRD
To: "Robert Grubbs"; Bratcher, Mike, EMNRD; "james_amos@blm.gov" (james_amos@blm.gov); "stucker@blm.gov"
Subject: RE: (Closure) West Brushy 8 SWD #1 (30-015-31675)
Date: Monday, April 04, 2016 12:43:00 PM
Attachments: image004.png

RE: COG Operating * West Brushy 8 Fed SWD #1 * 30-015-31675 * 2RP-3353

Mr. Grubbs,

The OCD cannot accept your closure request for the above listed site. In addition, a deferral for this release is problematic. In general a deferral is granted for releases that occur on location that can be tracked till site abandonment. With a release in the pasture, there is no effective end date at which remediation can be expected. The OCD also requires a full vertical and horizontal delineation before a site ranking can be assigned and a deferral granted.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Heather Patterson
Environmental Specialist
NMOCD District II
Office (575)748-1283 ext.101
Cell (575)703-0228

From: Robert Grubbs [mailto:RGrubbs@concho.com]
Sent: Wednesday, March 30, 2016 8:32 AM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; 'james_amos@blm.gov' (james_amos@blm.gov); 'stucker@blm.gov'
Subject: (Closure) West Brushy 8 SWD #1 (30-015-31675)

MR. BRATCHER,

ATTACHED FOR YOUR CONSIDERATION IS A COPY OF A CLOSURE LETTER ALONG WITH A C-141 FINAL FOR THE WEST BRUSHY 8 SWD #1. PLEASE FEEL FREE TO CONTACT ME WITH ANY QUESTIONS OR CONCERNS.

THANK YOU,

ROBERT GRUBBS JR.
SR. ENVIRONMENTAL COORDINATOR
432.683.7443 (MAIN)
432.818.2369 (DIRECT)
432.991.6801 (CELL)
432.221.0892 (FAX)
RGRUBBS@CONCHO.COM
MAILING ADDRESS:
ONE CONCHO CENTER
600 W. ILLINOIS AVENUE
MIDLAND, TEXAS 79701

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APPENDIX C

2019 BBC Closure Report

Closure Report

Site Description

Site Name:	West Brushy 8 Federal SWD #1
Company:	COG Operating LLC
Legal Description:	U/L A, Section 8, T26S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.06422° W-103.99710°

Release Data

Date of Release:	9/13/15, 7/3/16, 1/24/17, and 5/27/17
Type of Release:	Produced water
Source of Release:	Flowline leaks
Volume of Release:	30 bbls, 25 bbls, 30 bbls, 30 bbls
Volume Recovered:	3 bbls, 0 bbls, 15 bbls, 20 bbls

Remediation Specifications

Remediation Parameters:	Remediation was conducted based on the depths approved in each work plan.	
Remediation Activities:	9/14/18 to 12/27/18	
Plan Sent to OCD:	Dates vary	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	2/22/18	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	Dates vary	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	2/14/18	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 10/24/15, 7/8/16, 1/25/17, and 6/1/17
Final C-141	Signed 1/14/19
Site Diagram	Dates vary
Pictures	Remediation, liner, and backfill 9/17/18 to 12/27/18

Request for Closure

Based on the completion of the remediation plan, BBC International, Inc. requests closure approval from NMOCD.

Cliff Brunson, President, BBC International, Inc.

01/22/2019

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	
District RP	2RP-3353
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Rebecca HaskellTitle: Senior HSE CoordinatorSignature: Rebecca HaskellDate: 1/14/2019email: rhaskell@concho.comTelephone: (432) 683-7443**OCD Only**

Received by: _____

Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	
District RP	2RP-3774
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: **Rebecca Haskell**Title: **Senior HSE Coordinator**Signature: *Rebecca Haskell*Date: *1/14/19*email: **rhaskell@concho.com**Telephone: **(432) 683-7443****OCD Only**

Received by: _____

Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	
District RP	2RP-4094
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Rebecca HaskellTitle: Senior HSE CoordinatorSignature: Rebecca HaskellDate: 1/14/19email: rhaskell@concho.comTelephone: (432) 683-7443**OCD Only**

Received by: _____

Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-4240
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Rebecca Haskell Title: Senior HSE CoordinatorSignature: Rebecca Haskell Date: 1/14/19email: rhaskell@concho.com Telephone: (432) 683-7443**OCD Only**

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

September 15, 2015


West Brushy 8 SWD #1

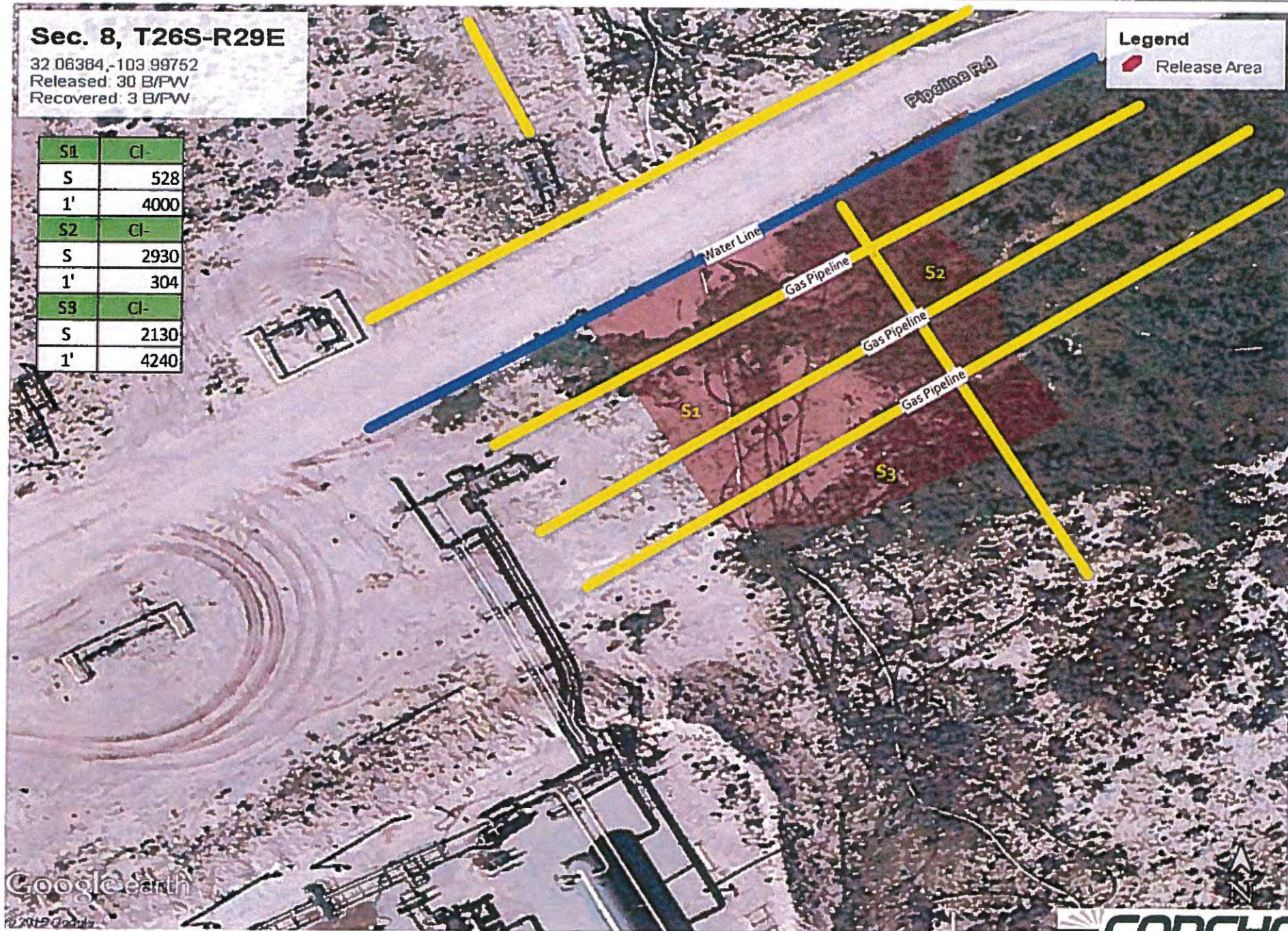
Sec. 8, T26S-R29E

32 06384, -103 99752
Released: 30 B/PW
Recovered: 3 B/PW

S1	CI-
S	528
1'	4000
S2	CI-
S	2930
1'	304
S3	CI-
S	2130
1'	4240

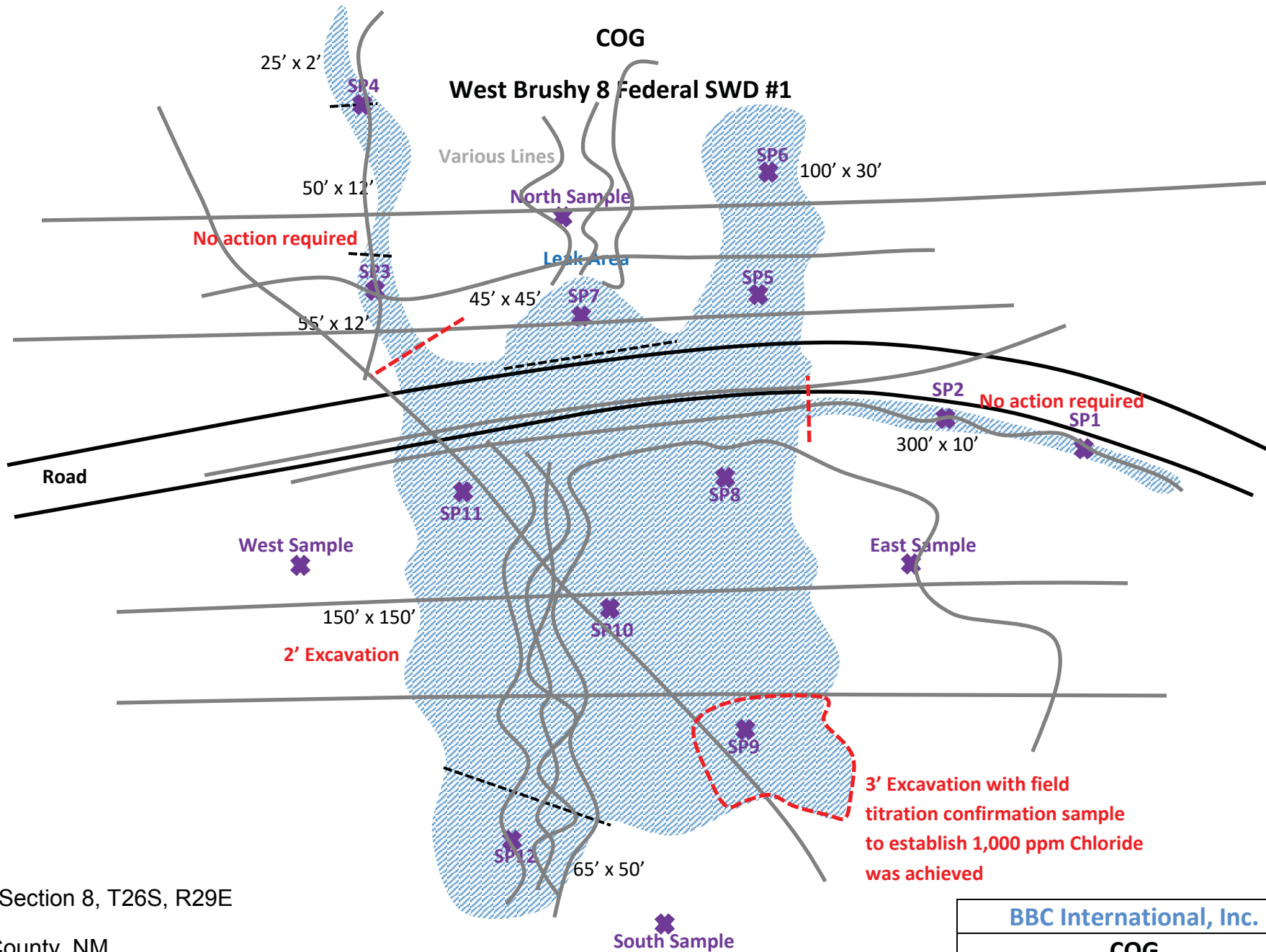
Legend

 Release Area



Google Earth

 **CONCHO**



U/L A, Section 8, T26S, R29E

Eddy County, NM

N 32.06350° W 103.99756°

API# 30-015-31675

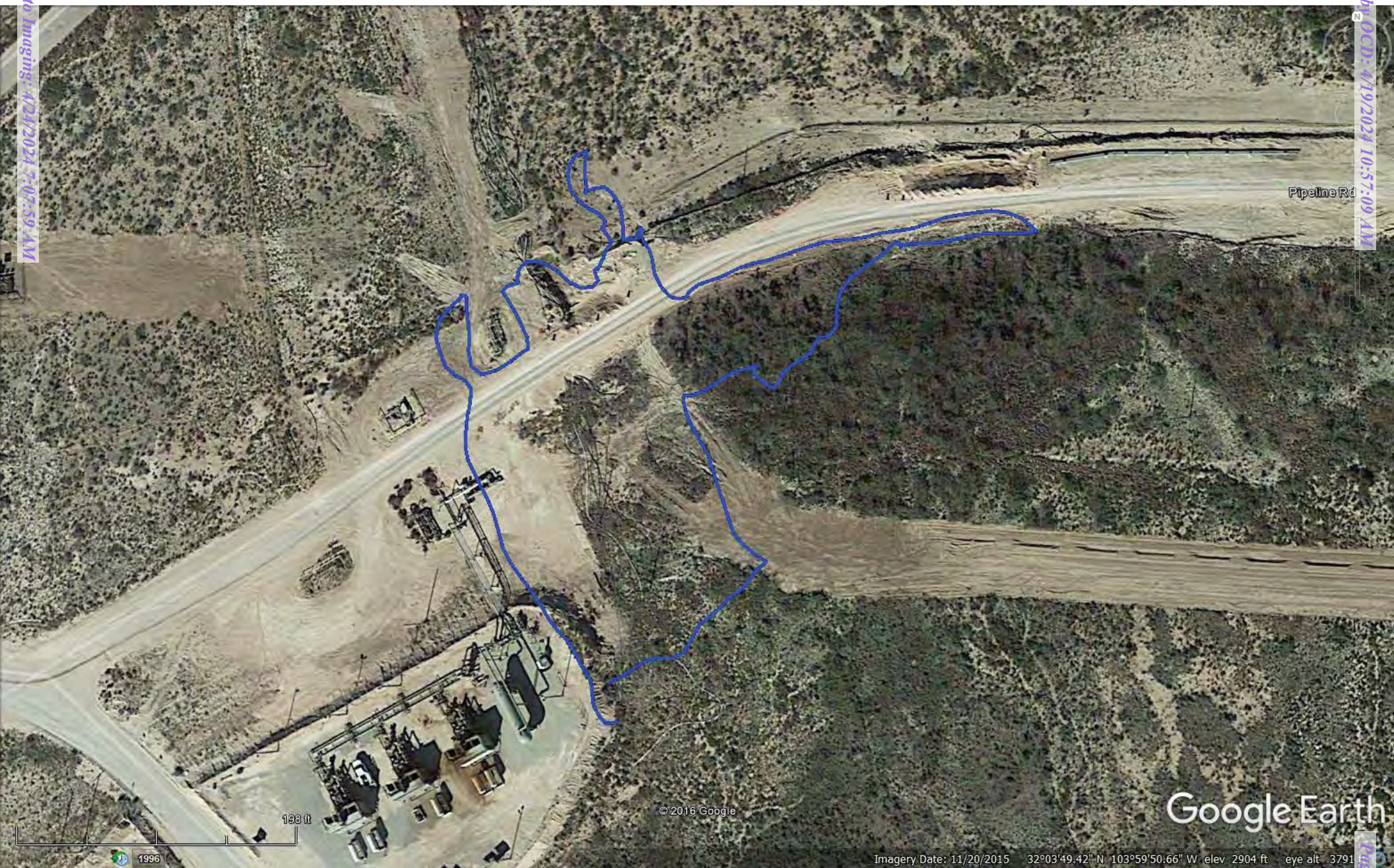
BBC International, Inc.**COG****West Brushy 8 Federal SWD #1**

Date: 01/05/2016

DRWG by: K. Purvis

NOT TO SCALE

File: COG 2017



Released to Imaging: 4/24/2024 7:07:59 AM

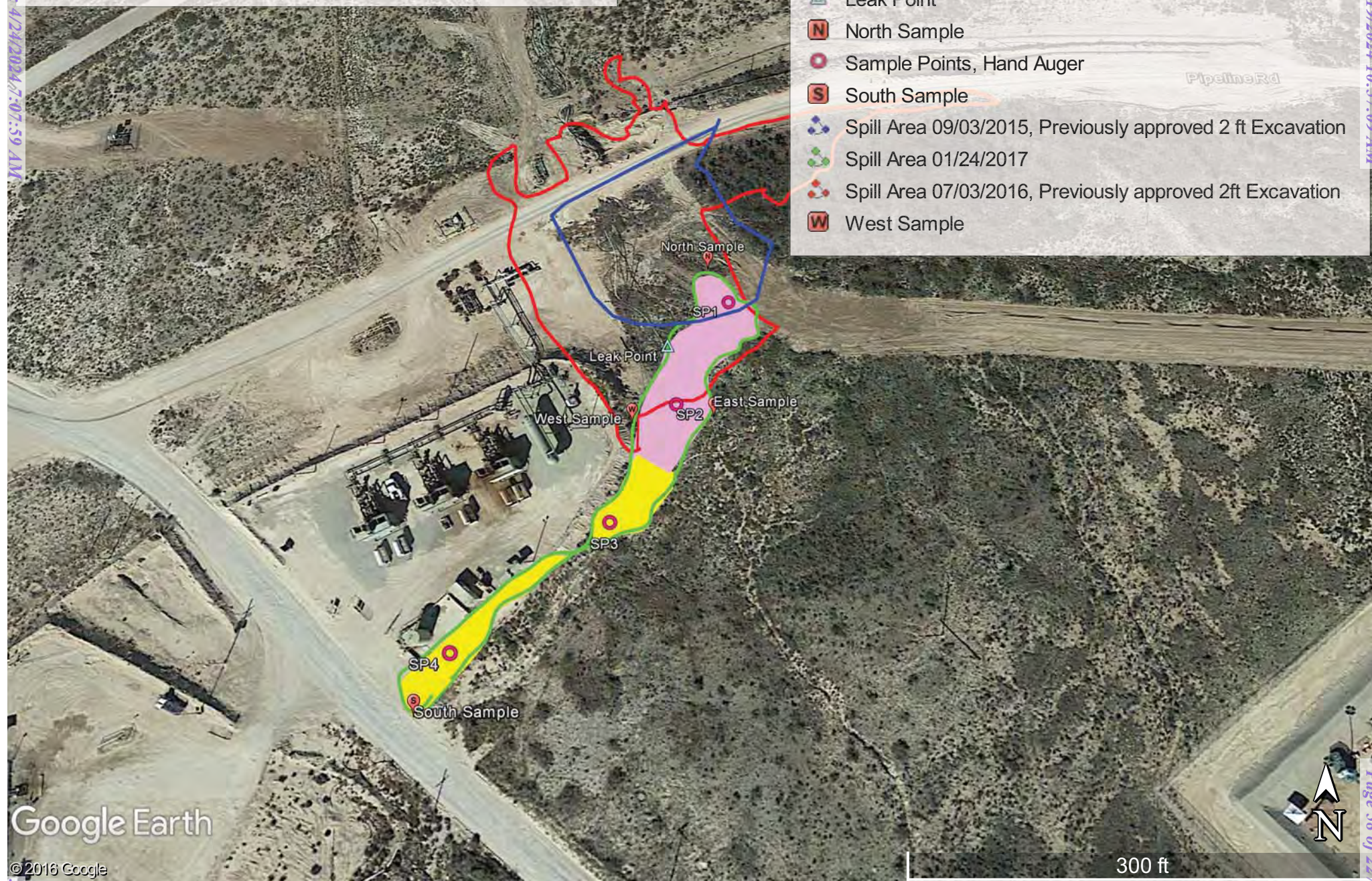
Received by OCD: 4/19/2024 10:57:09 AM

COG, West Brushy 8 Federal SWD #1

Leak Date: 01/24/2017
Eddy County, NM
API# 30-015-31675
RP# 2RP-4094

Legend

- 2 ft Excavation
- 3 ft Excavation
- East Sample
- Leak Point
- North Sample
- Sample Points, Hand Auger
- South Sample
- Spill Area 09/03/2015, Previously approved 2 ft Excavation
- Spill Area 01/24/2017
- Spill Area 07/03/2016, Previously approved 2ft Excavation
- West Sample



COG, West Brushy 8 Federal SWD #1

Leak date: 05/27/2017
Eddy County, NM
API# 30-015-31675

Legend

- 1 ft Excavation
- 4 ft Excavation with liner
- Sample points
- Leak Area
- No Remediation Activities, no impact
- Soil Borings, Drilling

















From: [Cantu Garcia, Moises H](#)
To: [Abbott, Sam](#); [Llull, Christian](#); [Chavira, Lisbeth](#)
Subject: Fwd: [EXTERNAL]The Oil Conservation Division (OCD) has rejected the application, Application ID: 206727
Date: Wednesday, May 3, 2023 4:20:32 PM

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Hello all,

Please see note below

Thanks for everything

Have a blessed day

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From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, May 1, 2023 2:35 PM
To: Cantu Garcia, Moises H <Moises.H.CantuGarcia@conocophillips.com>
Subject: [EXTERNAL]The Oil Conservation Division (OCD) has rejected the application, Application ID: 206727

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 (c/o Moises Cantu for COG OPERATING LLC),

The OCD has rejected the submitted *Internal Manual Incident File Supporting Documentation (ENV)* (IM-BNF), for incident ID (n#) nAB1529948530, for the following reasons:

- **Closure/deferral was rejected for this release in 2016 based on the location of the release and the release not being fully delineated. There are numerous releases that have occurred at this site and have not been closed. If there was overlap of the releases, the approved workplans will need to be provided as stated in this closure report.**
- **Submit a complete report through the OCD Permitting website by 8/1/2023.**
- **2RP-3353 closed. Refer to incident #NAB1529948530 in all future correspondence.**

The rejected IM-BNF can be found in the OCD Online: Permitting - Action Status, under the Application ID: 206727.

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 IM-BNF.

Thank you,
Brittany Hall

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

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

APPENDIX D

Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02997a	DESCRIPTION	View northeast of open excavation in vicinity of S1 near subsurface line.	1
	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1529948530	9/19/2018



TETRA TECH, INC. PROJECT NO. 212C-MD-02997a	DESCRIPTION	View northwest of open excavation in vicinity of S1 and S3 over subsurface line.	2
	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1529948530	9/27/2018



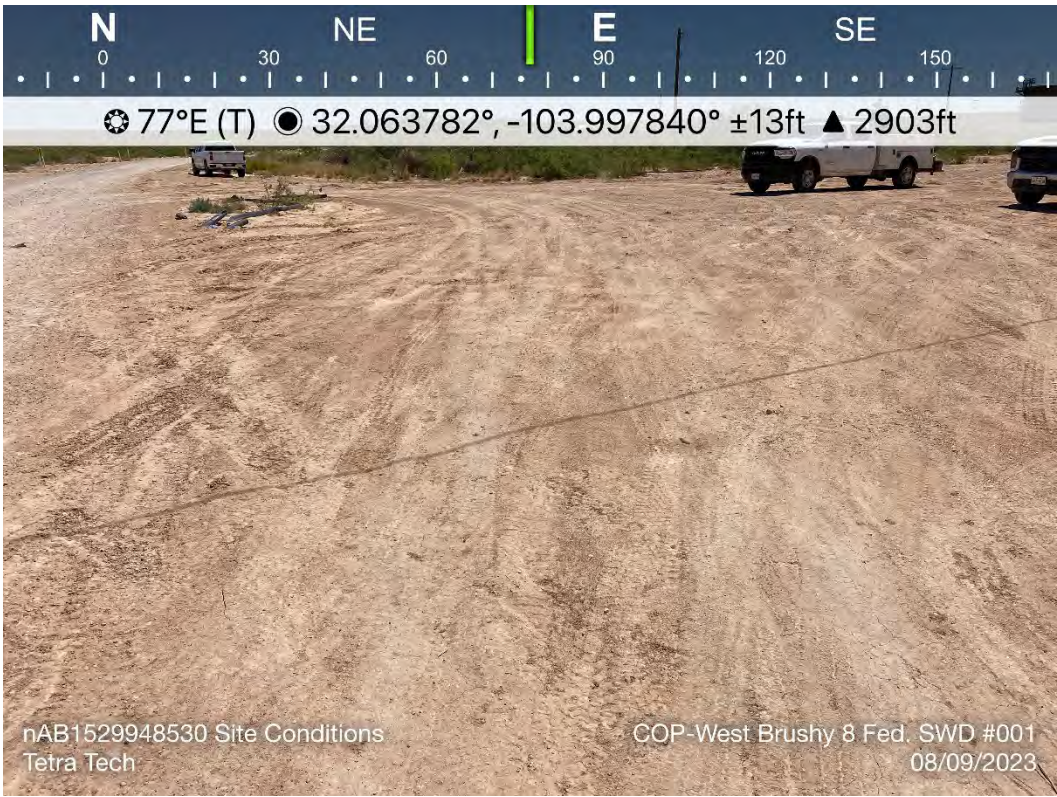
TETRA TECH, INC. PROJECT NO. 212C-MD-02997a	DESCRIPTION	View west of open excavation in vicinity of S1 and S3. Power poles, surface polyline, and high-pressure tank.	3
	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1529948530	9/27/2018



TETRA TECH, INC. PROJECT NO. 212C-MD-02997a	DESCRIPTION	View northeast of open excavation in vicinity of S1 through S3. Overhead powerlines and surface polyline.	4
	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1529948530	10/17/2018



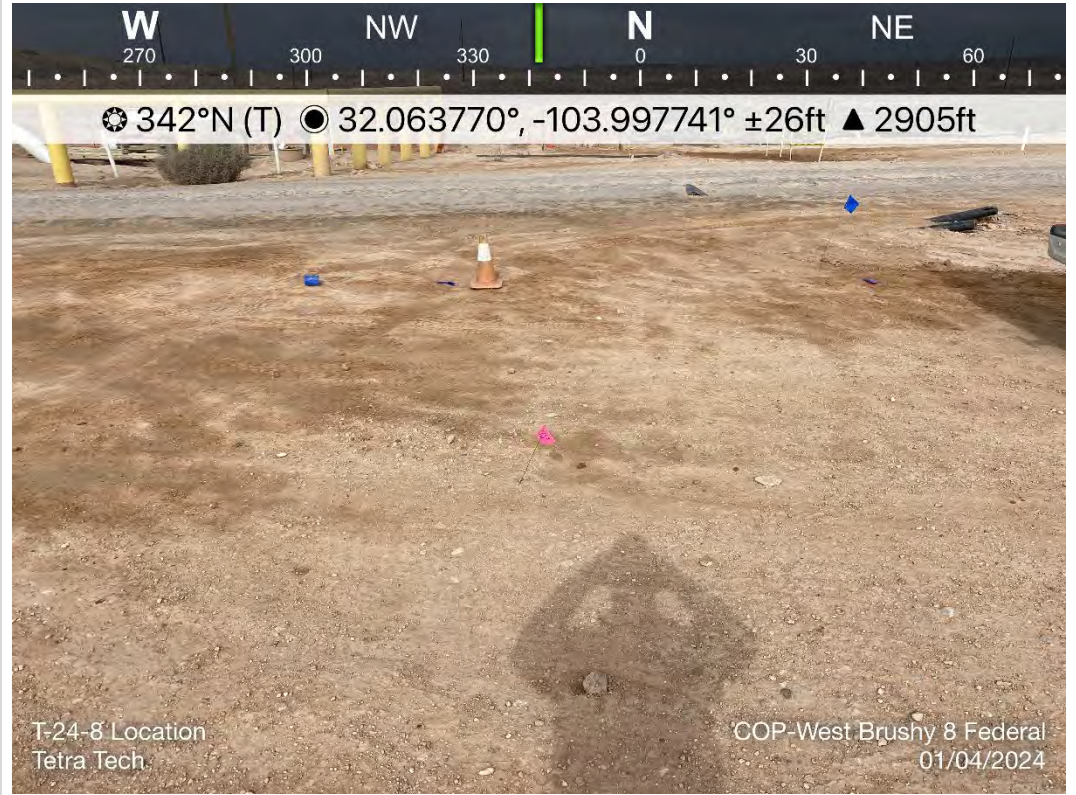
TETRA TECH, INC. PROJECT NO. 212C-MD-02997a	DESCRIPTION	View south of backfilled area. Power poles and high-pressure tank.	5
	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1529948530	10/17/2018



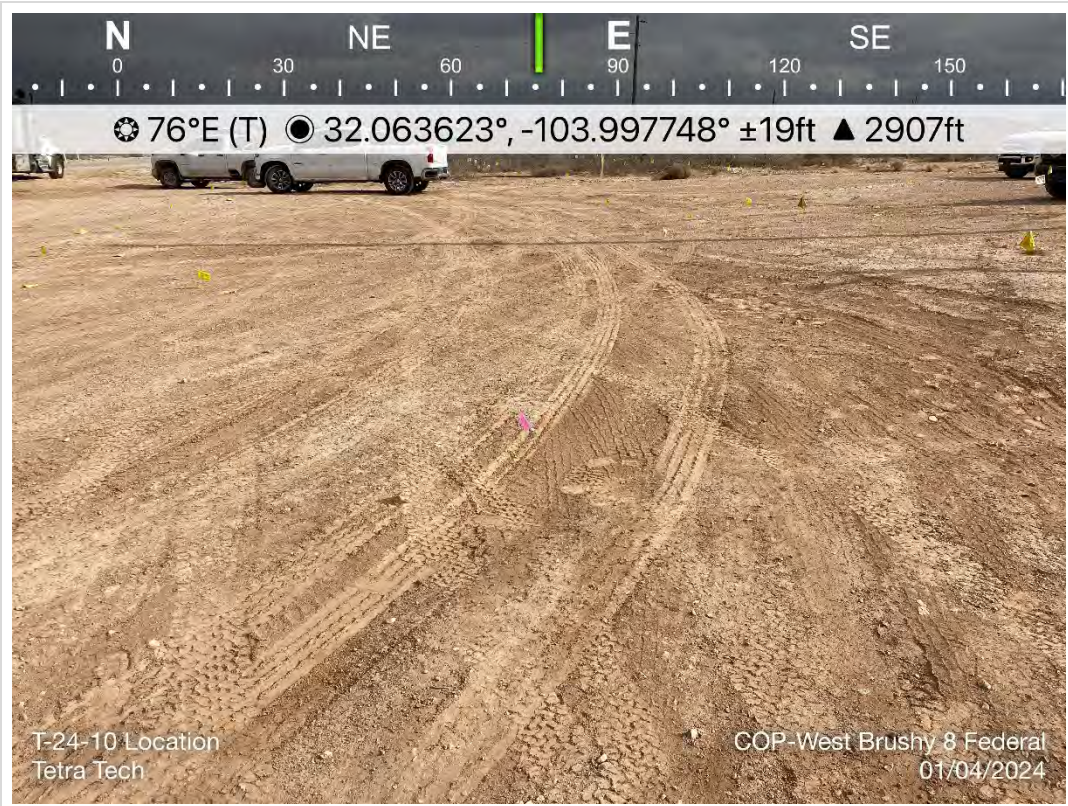
TETRA TECH, INC. PROJECT NO. 212C-MD-02997a	DESCRIPTION	View east-northeast of 2023 Site conditions.	6
	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1529948530	8/9/2023



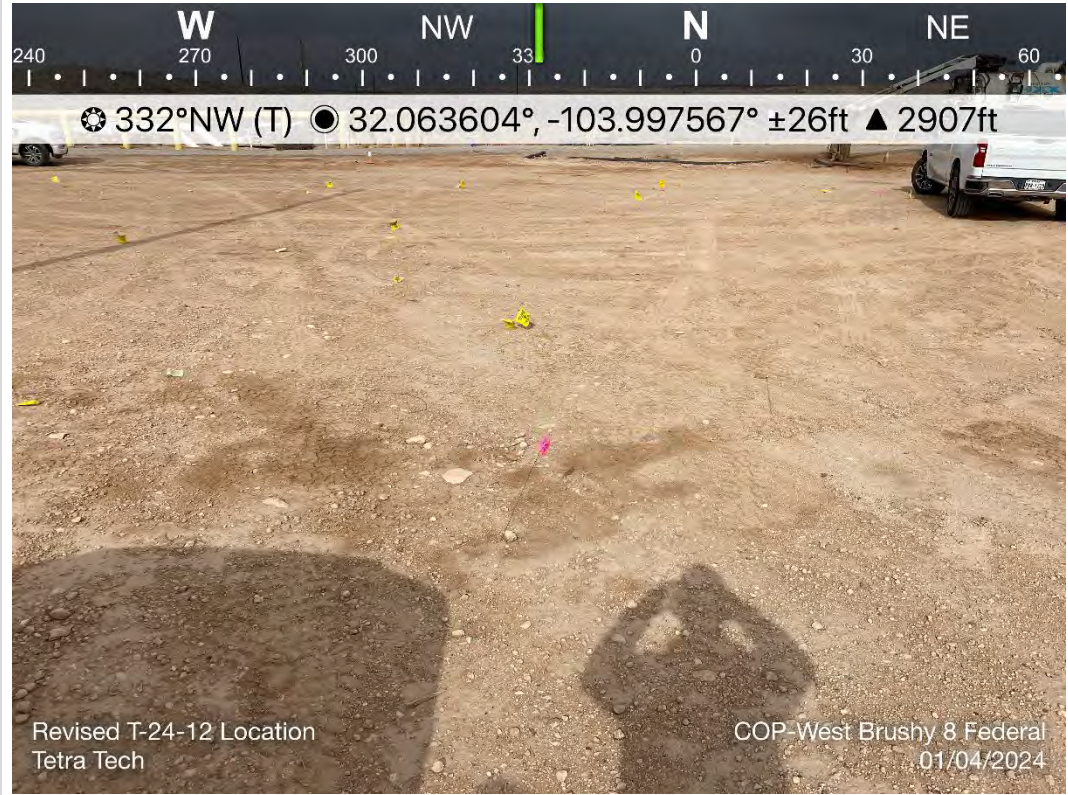
TETRA TECH, INC. PROJECT NO. 212C-MD-02997a	DESCRIPTION	View south-southwest of 2023 Site conditions.	7
	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1529948530	8/9/2023



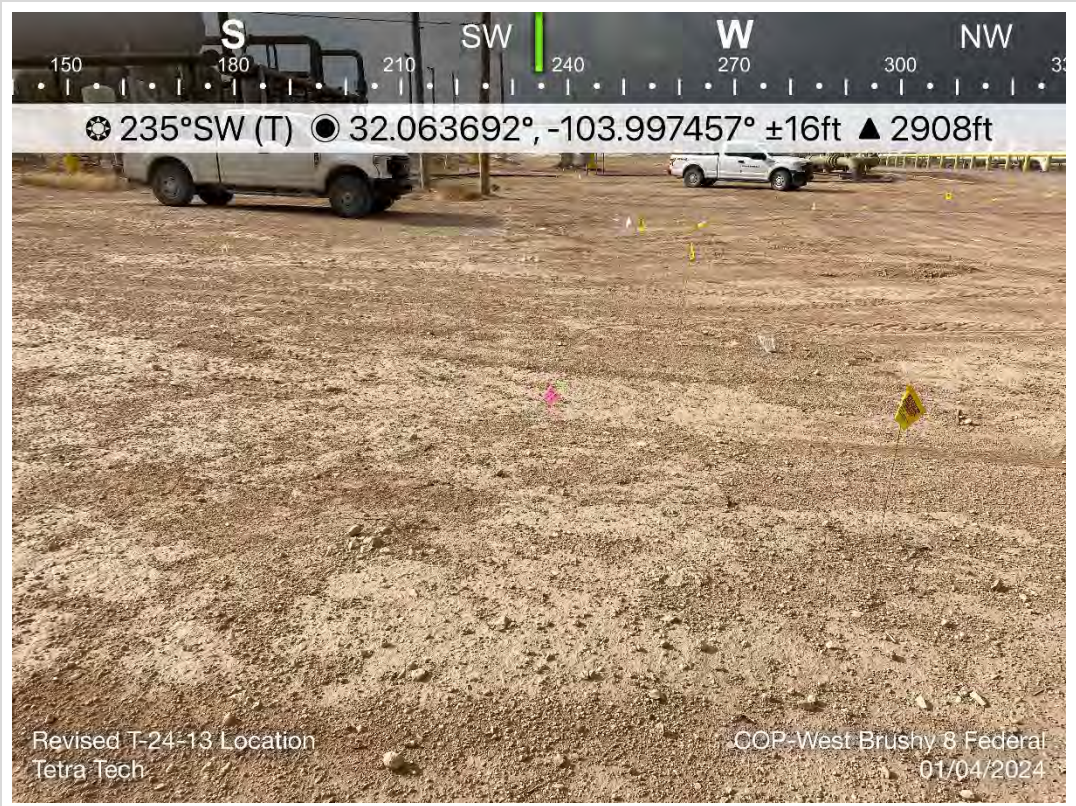
TETRA TECH, INC. PROJECT NO. 212C-MD-02997a	DESCRIPTION	View north of trench location T-24-8.	8
	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1529948530	1/4/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02997a	DESCRIPTION	View east-northeast of trench location T-24-10.	9
	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1529948530	8/9/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02997a	DESCRIPTION	View north-northwest of trench location T-24-12.	10
	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1529948530	1/4/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-02997a	DESCRIPTION	View southwest of trench location T-24-13.	11
	SITE NAME	WEST BRUSHY 8 FEDERAL SWD #001 Release nAB1529948530	1/4/2024

APPENDIX E

Regulatory Correspondence

Abbott, Sam

From: Llull, Christian
Sent: Thursday, November 30, 2023 12:42 PM
To: Tavarez, Ike
Cc: Chavira, Lisbeth; Abbott, Sam; Allen, Samantha
Subject: FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 281218



Ike:

Closure Rejected.

West Brushy 8 Federal SWD #001 Release
nAB1529948530
2RP-3353
DOR: 9/13/2015
Unit Letter A, Section 08, Township 26 South, Range 29 East
Eddy County, New Mexico

Christian

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, November 30, 2023 11:14 AM
To: Llull, Christian <Christian.Llull@tetrattech.com>
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 281218

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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#) nAB1529948530, for the following reasons:

- **Closure denied. Photo documentation and visual inspections are not accepted in place of laboratory reports. The release is subject to 19.15.29.12 E NMAC and cannot be closed until all conditions are met. Submit a report via the OCD permitting portal by February 21, 2024.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 281218. 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

From: [Taylor, Shelly J](#)
To: [Lull, Christian](#)
Cc: [Allen, Samantha](#); [Abbott, Sam](#)
Subject: Re: [EXTERNAL] RE: WEST BRUSHY 8 FEDERAL SWD #001 Release - nAB1619432451 - Remediation Work Plan
Date: Thursday, February 29, 2024 1:22:52 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)
[image010.png](#)
[Outlook-akaiv03p.png](#)
[Outlook-mbhjgqig.png](#)

You don't often get email from sjtaylor@blm.gov. [Learn why this is important](#)

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1. ROW Company, Name & Number: **ETC - WEST BRUSHY 8 FEDERAL SWD #001_**
2. Release Date: **07/03/2016**
3. GPS: **32.063500°**, **-103.997560°**
4. The point of release occurred **within an area not covered under a previous archeological survey**, *a full survey will be required including any areas that will be disturbed in order to access the release area. Based on survey results, an archeological monitor maybe required.*
5. The release **did not** impact any known archaeological areas based on available data.
6. This area **is** located within a **Medium karst zone**; a karst survey **will not be required**.
7. This site is **located within hydrological feature**.
8. Site **is** located within a **Special Status Plant Species** area.
9. The site **is not** located within a wildlife T&E species habitat. No survey will be required.
10. Area **is not** located within *Shinnery Oak PDO*.
11. Soils are within the **Pajarito-Dune Land**
12. **BLM Seed Mix: #2**.
13. Area is noted to be within N/A.
14. Site **is not** located within a *Special Area of concern*:
15. Site **is not** located within **ACEC**.
16. Site **is not** located within a Potash buffer area.

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

Sincerely,

Shelly J Taylor

Environmental Protection Specialist
Realty - Compliance

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



Spill/Release email: BLM_NM_CFO_REALTY_SPILL@BLM.GOV

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

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

Respectfully,

Shelly J Taylor

Assistant Field Manager
Lands & Minerals - Acting

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

Direct 575.627.0250
Mobile 575.200.0614
sjtaylor@blm.gov



From: Llull, Christian <Christian.Llull@tetrattech.com>
Sent: Tuesday, February 27, 2024 11:36 AM
To: Taylor, Shelly J <sjtaylor@blm.gov>

Cc: Allen, Samantha <SAMANTHA.ALLEN@tetrattech.com>; Abbott, Sam <Sam.Abbott@tetrattech.com>

Subject: [EXTERNAL] RE: WEST BRUSHY 8 FEDERAL SWD #001 Release - nAB1619432451 - Remediation Work Plan

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

Christian

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

Here is the KML.

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

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

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

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

Samantha Abbott, PG | Project Manager

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

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From: Llull, Christian <Christian.Llull@tetrattech.com>

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

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

Cc: Abbott, Sam <Sam.Abbott@tetrattech.com>; Allen, Samantha <SAMANTHA.ALLEN@tetrattech.com>

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

Shelly:

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

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

WEST BRUSHY 8 FEDERAL SWD #001

Eddy County, NM

GPS Coordinates: 32.063500°, -103.997560°

Incident ID: nAB1619432451

BACKGROUND:

- According to the Form C-141, the release was discovered on July 3, 2016.
 - The release consisted of 25 bbls of produced water, of which 0 bbls were recovered.
 - The cause of the release was noted as a damaged poly flowline.
- BBC conducted a site assessment from January 2017.

- Soil samples were collected from twelve (12) locations within the extent of the release and four (4) locations along the perimeter of the extent.
- A total of forty-three (43) soil samples were collected from the sixteen (16) sampling locations and submitted to Cardinal Laboratories in Hobbs, New Mexico (Cardinal) for analysis.
- Analytical results were above the reclamation limit for chloride (600 mg/kg) in surface (0-4 feet bgs) soils at eight (8) of the sampling locations (SP5 through SP12).
- A Delineation Workplan was prepared by BBC based on the results of the 2017 BBC assessment activities.
 - A copy of the approved remediation proposal Mr. Bratcher refers to in an email from February 22, 2018, could not be located.
- A Closure Report for four separate releases that occurred at the West Brushy 8 Federal SWD #001 Site, including Incident nAB1619432451, was rejected by NMOCD on May 1, 2023, with the following comments:
 - *"Email correspondence provided by operator stated that an email dated 2/22/2018 an email from OCD personnel stated "2RP-3353 and 2RP-3774 releases cover basically the same area and have approved remediation proposals". Based on the information found under 2RP-3353 (NAB1529948530) closed was not approved in 2016.*
 - *The closure report is not clear as to what activities occurred for remediation of this site.*
 - *Submit a complete report though the OCD Permitting website by 8/1/2023.*
 - *2RP-3774 closed. Refer to incident #NAB1619432451 in all future communication."*

ADDITIONAL ASSESSMENT:

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

WORK PLAN:

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

The total proposed volume to be removed and disposed of is 1,920 cubic yards.

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

Let me know what you think,

Christian

Christian Llull, P.G. | Program Manager

Mobile +1 (512) 565-0190 | christian.llull@tetrattech.com

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8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetrattech.com

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From: [Maxwell, Ashley, EMNRD](#)
To: [Abbott, Sam; Enviro, OCD, EMNRD](#)
Cc: [Lull, Christian; Allen, Samantha](#)
Subject: RE: [EXTERNAL] Extension Request - Application ID: 281218 (nAB1529948530)
Date: Friday, February 23, 2024 8:00:15 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

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Good Morning,

Your extension request of April 21, 2024 has been approved and is updated on the OCD permitting site.

Thanks,
Ashley

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/>

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

From: Abbott, Sam <Sam.Abbott@tetrattech.com>
Sent: Wednesday, February 21, 2024 1:31 PM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Lull, Christian <Christian.Lull@tetrattech.com>; Allen, Samantha <SAMANTHA.ALLEN@tetrattech.com>
Subject: [EXTERNAL] Extension Request - Application ID: 281218 (nAB1529948530)

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Ms. Maxwell,

On behalf of ConocoPhillips, Tetra Tech is requesting a 60-day extension (until April 21, 2024) to

complete reporting for the for the West Brushy 8 SWD #101 Release site (**nAB1529948530**).

Tetra Tech and ConocoPhillips completed additional assessment activities at the release site in conjunction with two contiguous release incidents (nAB1715742101 and nAB1619432451). Based on the results of the additional assessment activities, a combined remedial action was proposed for the three release incidents and work plans for the other two incidents have been submitted to the NMOCD and approved. A work plan with this combined remedial action is in draft for the nAB1529948530 release.

The NMOCD-approved work plans for nAB1715742101 and nAB1619432451 were submitted to the BLM for concurrence. Based on verbal correspondence with the BLM, an archeological pedestrian survey is required for the site before the remedial action can be approved.

Therefore, additional time is required to perform the required archeological pedestrian survey and complete the work plan for nAB1529948530 for review by OCD and BLM. A complete report will be submitted to the OCD within the requested timeframe.

Thank you,
Sam

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

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

Sent: Thursday, November 30, 2023 11:14 AM

To: Lull, Christian <Christian.Lull@tetrattech.com>

Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 281218



for the following reasons:

- **Closure denied. Photo documentation and visual inspections are not accepted in place of laboratory reports. The release is subject to 19.15.29.12 E NMAC and cannot be closed until all conditions are met. Submit a report via the OCD permitting portal by February 21, 2024.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 281218.

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 F

Site Characterization Data

OCD - Land Ownership



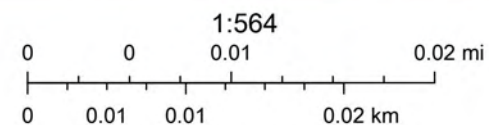
9/26/2023, 10:14:09 AM

Mineral Ownership

A-All minerals are owned by U.S.

Land Ownership

BLM



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

National Flood Hazard Layer FIRMette



104°0'10"W 32°4'4"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		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
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/26/2023 at 10:39 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

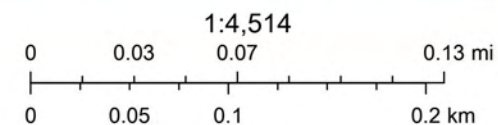
OCD - Karst Areas



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

Karst Occurrence Potential

 Medium



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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03507 POD1	C	ED		1	3	3	05	26S	29E	593064	3548313	1611	140	78	62
C 03508 POD1	C	ED		1	3	3	05	26S	29E	593063	3548361	1624	140	75	65

Average Depth to Water: 76 feet

Minimum Depth: 75 feet

Maximum Depth: 78 feet

Record Count: 2

UTMNAD83 Radius Search (in meters):

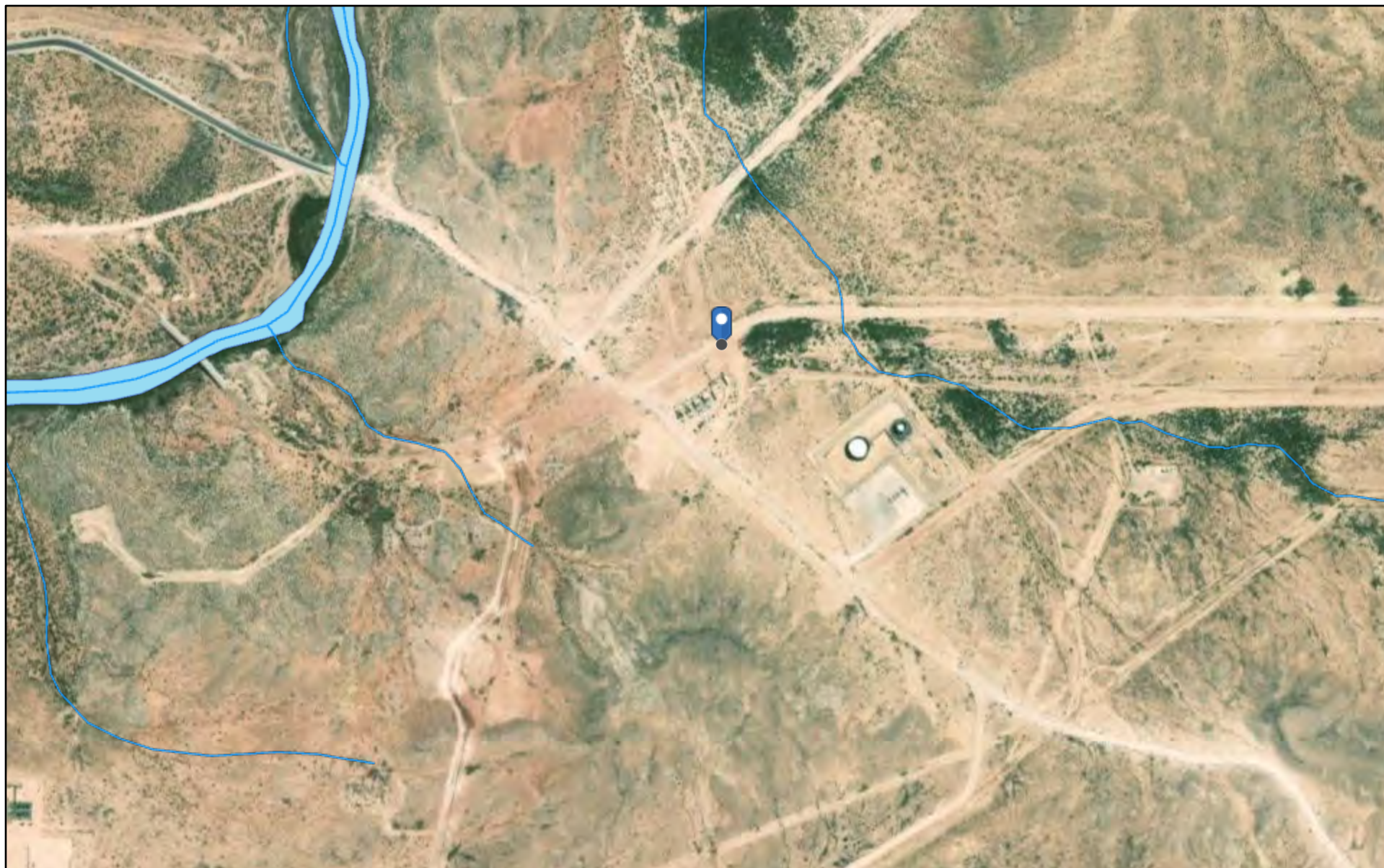
Easting (X): 594622.15

Northing (Y): 3547903.47

Radius: 1700

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

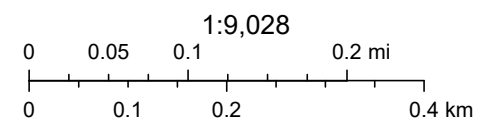
OCD Waterbodies



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

 OSW Water Bodys

 OSE Streams



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

APPENDIX G

Laboratory Analytical Data



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

September 27, 2023

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: WEST BRUSHY 8 FED SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 09/22/23 12:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/22/2023	Sampling Date:	09/21/2023
Reported:	09/27/2023	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Dionica Hinojos
Project Location:	COP EDDY COUNTY, NM		

Sample ID: AH - 23 - 1 (0-1') (H235170-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	222	111	200	0.390	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	216	108	200	1.43	
EXT DRO >C28-C36	19.1	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/22/2023
 Reported: 09/27/2023
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP EDDY COUNTY, NM

Sampling Date: 09/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: AH - 23 - 2 (0-1') (H235170-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83		
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49		
Total BTEX	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	09/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/22/2023
 Reported: 09/27/2023
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP EDDY COUNTY, NM

Sampling Date: 09/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: AH - 23 - 2 (2'-3') (H235170-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83		
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49		
Total BTEx	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	09/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	27.5	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/22/2023
 Reported: 09/27/2023
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP EDDY COUNTY, NM

Sampling Date: 09/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: AH - 23 - 3 (0-1') (H235170-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83		
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49		
Total BTEX	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/22/2023
 Reported: 09/27/2023
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP EDDY COUNTY, NM

Sampling Date: 09/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: AH - 23 - 4 (0-1') (H235170-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83		
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49		
Total BTEX	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/22/2023	Sampling Date:	09/21/2023
Reported:	09/27/2023	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Dionica Hinojos
Project Location:	COP EDDY COUNTY, NM		

Sample ID: AH - 23 - 5 (0-1') (H235170-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83		
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49		
Total BTEX	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	09/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/22/2023
 Reported: 09/27/2023
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP EDDY COUNTY, NM

Sampling Date: 09/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: AH - 23 - 5 (2'-3') (H235170-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83		
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49		
Total BTEX	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	09/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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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:	09/22/2023	Sampling Date:	09/21/2023
Reported:	09/27/2023	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Dionica Hinojos
Project Location:	COP EDDY COUNTY, NM		

Sample ID: AH - 23 - 6 (0-1') (H235170-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83		
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49		
Total BTEX	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.8 % 49.1-148

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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:	09/22/2023	Sampling Date:	09/21/2023
Reported:	09/27/2023	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Dionica Hinojos
Project Location:	COP EDDY COUNTY, NM		

Sample ID: AH - 23 - 7 (0-1') (H235170-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83		
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49		
Total BTEX	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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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: 09/22/2023
 Reported: 09/27/2023
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP EDDY COUNTY, NM

Sampling Date: 09/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: AH - 23 - 8 (0-1') (H235170-10)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83	
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49	
Total BTEX	<0.300	0.300	09/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	09/25/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	43.1	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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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:	09/22/2023	Sampling Date:	09/21/2023
Reported:	09/27/2023	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Dionica Hinojos
Project Location:	COP EDDY COUNTY, NM		

Sample ID: AH - 23 - 8 (2'-3') (H235170-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83		
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49		
Total BTEX	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	09/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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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:	09/22/2023	Sampling Date:	09/21/2023
Reported:	09/27/2023	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Dionica Hinojos
Project Location:	COP EDDY COUNTY, NM		

Sample ID: AH - 23 - 8 (3'-4') (H235170-12)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83		
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49		
Total BTX	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	09/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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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: 09/22/2023
 Reported: 09/27/2023
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP EDDY COUNTY, NM

Sampling Date: 09/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: AH - 23 - 9 (0-1') (H235170-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83		
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49		
Total BTEx	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.3 % 49.1-148

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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:	09/22/2023	Sampling Date:	09/21/2023
Reported:	09/27/2023	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Dionica Hinojos
Project Location:	COP EDDY COUNTY, NM		

Sample ID: AH - 23 - 10 (0-1') (H235170-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83		
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49		
Total BTEX	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	09/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

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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:	09/22/2023	Sampling Date:	09/21/2023
Reported:	09/27/2023	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Dionica Hinojos
Project Location:	COP EDDY COUNTY, NM		

Sample ID: AH - 23 - 11 (0-1') (H235170-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83		
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49		
Total BTEX	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/22/2023
 Reported: 09/27/2023
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP EDDY COUNTY, NM

Sampling Date: 09/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: AH - 23 - 11 (2'-3') (H235170-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83		
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49		
Total BTEX	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

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	09/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/22/2023	Sampling Date:	09/21/2023
Reported:	09/27/2023	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Dionica Hinojos
Project Location:	COP EDDY COUNTY, NM		

Sample ID: AH - 23 - 12 (0-1') (H235170-17)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83		
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49		
Total BTEx	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/25/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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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: 09/22/2023
 Reported: 09/27/2023
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP EDDY COUNTY, NM

Sampling Date: 09/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: AH - 23 - 13 (0-1') (H235170-18)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83		
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49		
Total BTEX	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/25/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/22/2023	Sampling Date:	09/21/2023
Reported:	09/27/2023	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Dionica Hinojos
Project Location:	COP EDDY COUNTY, NM		

Sample ID: AH - 23 - 14 (0-1') (H235170-19)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83		
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49		
Total BTEX	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/25/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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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: 09/22/2023
 Reported: 09/27/2023
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP EDDY COUNTY, NM

Sampling Date: 09/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: AH - 23 - 14 (2'-3') (H235170-20)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.83	91.5	2.00	4.83		
Toluene*	<0.050	0.050	09/25/2023	ND	1.90	95.0	2.00	5.33		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.89	94.4	2.00	4.88		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.76	96.1	6.00	3.49		
Total BTEx	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/25/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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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: 09/22/2023
 Reported: 09/27/2023
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP EDDY COUNTY, NM

Sampling Date: 09/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: AH - 23 - 15 (0-1') (H235170-21)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2023	ND	1.95	97.5	2.00	4.14		
Toluene*	<0.050	0.050	09/25/2023	ND	2.05	102	2.00	5.37		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	2.20	110	2.00	4.94		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	6.00	100	6.00	5.19		
Total BTX	<0.300	0.300	09/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/25/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2023	ND	202	101	200	0.877	
DRO >C10-C28*	<10.0	10.0	09/23/2023	ND	205	103	200	0.746	
EXT DRO >C28-C36	<10.0	10.0	09/23/2023	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

Page 24 of 26



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Sam Abbott		Company: Tetra Tech					
Address: 89M Capital of Texas Hwy, Suite 2310		Attn: Sam Abbott					
City: Austin		Address: Email					
State: TX							
Zip: 78750							
Phone #:		City:					
Fax #:		State:					
Project #: 212C-MD-02997A		Project Owner: Conoco Phillips					
Project Name: West Brushy & Feal SWD #1		State:					
Project Location: Eddy County, NM		Zip:					
Sample Name: Ivan Ramos		Phone #:					
Fax #:							
FOR LAB USE ONLY		PRESERV		SAMPLING			
Lab I.D. H35170		Matrix					
Sample I.D.		GROUNDWATER					
		WASTEWATER					
		SOIL					
		OIL					
		SLUDGE					
		OTHER :					
		ACID/BASE:					
		ICE / COOL					
		OTHER :					
		DATE					
		TIME					
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12		X		TPH 8015M			
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101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

December 06, 2023

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: WEST BRUSHY 8 FED SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 12/01/23 10:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/01/2023	Sampling Date:	11/30/2023
Reported:	12/06/2023	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Dionica Hinojos
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 1 (0-1') (H236457-01)

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	12/04/2023	ND	2.02	101	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.00	100	2.00	0.386	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.00	99.9	2.00	0.250	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	5.90	98.3	6.00	0.317	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	12/01/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2023	ND	207	104	200	5.34	
DRO >C10-C28*	<10.0	10.0	12/01/2023	ND	194	97.0	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	12/01/2023	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/01/2023
 Reported: 12/06/2023
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 11/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: T - 5 (0-1') (H236457-02)

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	12/04/2023	ND	2.02	101	2.00	1.52	
Toluene*	<0.050	0.050	12/04/2023	ND	2.00	100	2.00	0.386	
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.00	99.9	2.00	0.250	
Total Xylenes*	<0.150	0.150	12/04/2023	ND	5.90	98.3	6.00	0.317	
Total BTEX	<0.300	0.300	12/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/01/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2023	ND	207	104	200	5.34	
DRO >C10-C28*	<10.0	10.0	12/01/2023	ND	194	97.0	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	12/01/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

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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: 12/01/2023
 Reported: 12/06/2023
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 11/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: AH-23-16 (0-1') (H236457-03)

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	12/04/2023	ND	2.02	101	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.00	100	2.00	0.386		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.00	99.9	2.00	0.250		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	5.90	98.3	6.00	0.317		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/01/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2023	ND	207	104	200	5.34	
DRO >C10-C28*	<10.0	10.0	12/01/2023	ND	194	97.0	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	12/01/2023	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 49.1-148

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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: 12/01/2023
 Reported: 12/06/2023
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 11/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: AH-23-17 (0-1') (H236457-04)

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	12/04/2023	ND	2.02	101	2.00	1.52		
Toluene*	<0.050	0.050	12/04/2023	ND	2.00	100	2.00	0.386		
Ethylbenzene*	<0.050	0.050	12/04/2023	ND	2.00	99.9	2.00	0.250		
Total Xylenes*	<0.150	0.150	12/04/2023	ND	5.90	98.3	6.00	0.317		
Total BTEX	<0.300	0.300	12/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/01/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/01/2023	ND	207	104	200	5.34	
DRO >C10-C28*	<10.0	10.0	12/01/2023	ND	194	97.0	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	12/01/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

January 09, 2024

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: WEST BRUSHY 8 FED SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 01/08/24 8:20.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/08/2024	Sampling Date:	01/04/2024
Reported:	01/09/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T-24-1 (6'-7') (H240058-01)

BTX 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	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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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: 01/08/2024
 Reported: 01/09/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: T-24-2 (5'-5.5') (H240058-02)

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	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	01/08/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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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: 01/08/2024
 Reported: 01/09/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: T-24-3 (7'-7.5') (H240058-03)

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	01/08/2024	ND	1.90	94.8	2.00	11.6		
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1140	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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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: 01/08/2024
 Reported: 01/09/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: T-24-4 (8'-8.5') (H240058-04)

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	01/08/2024	ND	1.90	94.8	2.00	11.6		
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/08/2024
 Reported: 01/09/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: T-24-5 (6'-7') (H240058-05)

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	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	01/08/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/08/2024
 Reported: 01/09/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: T-24-16 (5'-6') (H240058-06)

BTX 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	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	01/08/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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.
- 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

January 11, 2024

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: WEST BRUSHY 8 FED SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 01/08/24 8:20.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/08/2024	Sampling Date:	01/04/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 1 (3'-4') (H240059-01)

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	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	01/08/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/08/2024	Sampling Date:	01/04/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 1 (5'-6') (H240059-02)

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	01/08/2024	ND	1.90	94.8	2.00	11.6		
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/08/2024	Sampling Date:	01/04/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 2 (0-1') (H240059-03)

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	01/08/2024	ND	1.90	94.8	2.00	11.6		
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4120	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/04/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 2 (2'-3') (H240059-04)

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	01/08/2024	ND	1.90	94.8	2.00	11.6		
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1700	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/08/2024	Sampling Date:	01/04/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 2 (3'-4') (H240059-05)

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	01/08/2024	ND	1.90	94.8	2.00	11.6		
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/08/2024	Sampling Date:	01/04/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 3 (3'-4') (H240059-06)

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	01/08/2024	ND	1.90	94.8	2.00	11.6		
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4080	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/04/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 3 (5'-6') (H240059-07)

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	01/08/2024	ND	1.90	94.8	2.00	11.6		
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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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: 01/08/2024
 Reported: 01/11/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/04/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: T - 24 - 3 (6'-7') (H240059-08)

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	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	01/08/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/04/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 4 (0-1') (H240059-09)

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	01/08/2024	ND	1.90	94.8	2.00	11.6		
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/04/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 4 (2'-3') (H240059-10)

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	01/08/2024	ND	1.90	94.8	2.00	11.6	
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4	
Total BTEX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	01/08/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/04/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 4 (3'-4') (H240059-11)

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	01/08/2024	ND	1.90	94.8	2.00	11.6		
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/04/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 4 (5'-6') (H240059-12)

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	01/08/2024	ND	1.90	94.8	2.00	11.6		
Toluene*	<0.050	0.050	01/08/2024	ND	1.86	92.8	2.00	12.2		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	1.84	92.1	2.00	12.2		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	5.37	89.4	6.00	12.4		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	176	87.8	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	166	83.0	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/04/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 4 (6'-7') (H240059-13)

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	01/08/2024	ND	2.02	101	2.00	8.54		
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84		
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44		
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND						

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/04/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 5 (3'-4') (H240059-14)

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	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1140	16.0	01/08/2024	ND	448	112	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84		
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44		
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND						

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/08/2024	Sampling Date:	01/04/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 5 (5'-6') (H240059-15)

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	01/08/2024	ND	2.02	101	2.00	8.54		
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 6 (0-1') (H240059-16)

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	01/08/2024	ND	2.02	101	2.00	8.54		
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84		
DRO >C10-C28*	211	10.0	01/08/2024	ND	177	88.4	200	6.44		
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND						

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 155 % 49.1-148

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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: 01/08/2024
 Reported: 01/11/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: T - 24 - 6 (1'-2') (H240059-17)

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	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/08/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	11.2	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 7 (0-1') (H240059-18)

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	01/08/2024	ND	2.02	101	2.00	8.54		
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 7 (2'-3') (H240059-19)

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	01/08/2024	ND	2.02	101	2.00	8.54		
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4280	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 7 (3'-4') (H240059-20)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	GC-NC
Total Xylenes*	0.271	0.150	01/08/2024	ND	6.11	102	6.00	8.63	GC-NC1
Total BTEX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 176 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	01/08/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	21.2	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	45.9	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 135 % 48.2-134

Surrogate: 1-Chlorooctadecane 149 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 7 (5'-6') (H240059-21)

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	01/08/2024	ND	2.02	101	2.00	8.54		
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 7 (6'-7') (H240059-22)

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	01/08/2024	ND	2.02	101	2.00	8.54		
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/08/2024
 Reported: 01/11/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: T - 24 - 8 (0-1') (H240059-23)

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	01/08/2024	ND	2.02	101	2.00	8.54	
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63	
Total BTEX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	01/08/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 70.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.7 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 8 (2'-3') (H240059-24)

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	01/08/2024	ND	2.02	101	2.00	8.54		
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 8 (3'-4') (H240059-25)

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	01/08/2024	ND	2.02	101	2.00	8.54		
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 9 (0-1') (H240059-26)

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	01/08/2024	ND	2.02	101	2.00	8.54		
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 9 (2'-3') (H240059-27)

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	01/08/2024	ND	2.02	101	2.00	8.54		
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	195	97.6	200	5.84		
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	177	88.4	200	6.44		
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND						

Surrogate: 1-Chlorooctane 72.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 10 (0-1') (H240059-28)

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	01/08/2024	ND	2.02	101	2.00	8.54		
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 10 (2'-3') (H240059-29)

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	01/08/2024	ND	2.02	101	2.00	8.54		
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 11 (0-1') (H240059-30)

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	01/08/2024	ND	2.02	101	2.00	8.54		
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 11 (2'-3') (H240059-31)

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	01/08/2024	ND	2.02	101	2.00	8.54		
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 148 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 11 (3'-4') (H240059-32)

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	01/08/2024	ND	2.02	101	2.00	8.54		
Toluene*	<0.050	0.050	01/08/2024	ND	2.02	101	2.00	8.68		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.00	100	2.00	9.22		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.11	102	6.00	8.63		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	195	97.6	200	5.84	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	177	88.4	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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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: 01/08/2024
 Reported: 01/11/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: T - 24 - 12 (0-1') (H240059-33)

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	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/08/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	225	113	200	1.77	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	204	102	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 13 (0-1') (H240059-34)

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	01/08/2024	ND	2.06	103	2.00	9.26		
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	225	113	200	1.77		
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	204	102	200	3.30		
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND						

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 13 (2'-3') (H240059-35)

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	01/08/2024	ND	2.06	103	2.00	9.26		
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	225	113	200	1.77	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	204	102	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 14 (0-1') (H240059-36)

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	01/08/2024	ND	2.06	103	2.00	9.26		
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	225	113	200	1.77	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	204	102	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 14 (2'-3') (H240059-37)

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	01/08/2024	ND	2.06	103	2.00	9.26		
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	221	111	200	7.98	QM-07
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 15 (0-1') (H240059-38)

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	01/08/2024	ND	2.06	103	2.00	9.26		
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1470	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: T - 24 - 15 (1'-2') (H240059-39)

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	01/08/2024	ND	2.06	103	2.00	9.26		
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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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: 01/08/2024
 Reported: 01/11/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: T - 24 - 16 (0-1') (H240059-40)

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	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	01/08/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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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: 01/08/2024
 Reported: 01/11/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: T - 24 - 16 (2'-3') (H240059-41)

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	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	01/08/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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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: 01/08/2024
 Reported: 01/11/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: T - 24 - 16 (3'-4') (H240059-42)

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	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	01/08/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: H - 24 - 1 (0-1') (H240059-43)

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	01/08/2024	ND	2.06	103	2.00	9.26		
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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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: 01/08/2024
 Reported: 01/11/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 24 - 2 (0-1') (H240059-44)

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	01/08/2024	ND	2.06	103	2.00	9.26	
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09	
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98	
Total BTEX	<0.300	0.300	01/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/08/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: H - 24 - 3 (0-1') (H240059-45)

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	01/08/2024	ND	2.06	103	2.00	9.26		
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/08/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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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:	01/08/2024	Sampling Date:	01/05/2024
Reported:	01/11/2024	Sampling Type:	Soil
Project Name:	WEST BRUSHY 8 FED SWD #1	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02997A	Sample Received By:	Tamara Oldaker
Project Location:	COP- EDDY COUNTY, NM		

Sample ID: H - 24 - 4 (0-1') (H240059-46)

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	01/08/2024	ND	2.06	103	2.00	9.26		
Toluene*	<0.050	0.050	01/08/2024	ND	2.14	107	2.00	5.09		
Ethylbenzene*	<0.050	0.050	01/08/2024	ND	2.26	113	2.00	3.91		
Total Xylenes*	<0.150	0.150	01/08/2024	ND	6.82	114	6.00	3.98		
Total BTEX	<0.300	0.300	01/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/08/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	221	111	200	7.98	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech Project Manager: Sam Abbott Address: 8911 Capital o Texas Hwy, Suite 2310 City: Austin State: TX Zip: _____ Phone #: (512)565-0190 Fax #: _____ Project #: 212C-MD-02997A Project Owner: ConocoPhillips Project Name: West Brushy & Federal SWD #001 Project Location: Eddy County, New Mexico Sampler Name: Colton Bickelstaff <small>FOR LAB USE ONLY</small>										BILL TO										ANALYSIS REQUEST									
P.O. #: _____ Company: Tetra Tech Attn: Sam Abbott Address: EMAIL _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____																													
Lab I.D.										Sample I.D.																			
1240059 1 T-24-1 (3'-4') 2 T-24-1 (5'-6') 3 T-24-2 (0-1') 4 T-24-2 (2'-3') 5 T-24-2 (3'-4') 6 T-24-3 (3'-4') 7 T-24-3 (5'-6') 8 T-24-3 (6'-7') 9 T-24-4 (0-1') 10 T-24-4 (2-3')										(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :										MATRIX PRESERV. SAMPLING									
										DATE TIME TPH 8015M BTEX 8021B Chloride SM4500Cl-B																			
Requisitioned By: Colton Bickelstaff Date: 01/08/24 Time: 1820 Received By: [Signature] REMARKS:										Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com AND Eileen.Chavira@tetratech.com																			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:										Observed Temp. °C 0.3 Corrected Temp. °C _____ <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No										Sample Cc-add'n Cool Inlet <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: [Signature] (Initials) Thermometer Type: Standard <input checked="" type="checkbox"/> Bath <input type="checkbox"/> Observed Temp. °C Thermometer ID: #140 Correction Factor: 0.00 Correction: 0.00 Observed Temp. °C 0.3 Corrected Temp. °C 0.3									



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech

Project Manager: Sam Abbott

Address: 8911 Capital o Texas Hwy, Suite 2310

City: Austin State: TX Zip:

Phone #:	(512)565-0190	Fax #:
----------	---------------	--------

Project #:	212C-MD-02997A	Project Owner:
------------	----------------	----------------

Project Name: West Brushy & Federal SWD #001

Project Location: Eddy County, New Mexico

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

AB OR (C)OMP

(G)R/

G	
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9	9
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech

101 East Marland, Hobbs, NM 88240

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

Project Manager: Sam Abbott

Address: 8911 Capital o Texas Hwy, Suite 2310

City: Austin

Phone #: (512)565-0190 Fax #: State: TX Zip:

Project #: 212C-MD-02997A Project Owner: ConocoPhillips

Project Name: West Brushy 8 Federal SWD #001

Project Location: Eddy County, New Mexico

Sample Name: Cotton Bickstaff

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

4240059

31 T-24-11 (2-3)

32 T-24-11 (3-4)

33 T-24-12 (0-1)

34 T-24-13 (0-1)

35 T-24-13 (2-3)

36 T-24-14 (0-1)

37 T-24-14 (2-3)

38 T-24-15 (0-1)

39 T-24-15 (1-2)

40 T-24-16 (0-1)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER : ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8015M

BTEX 8021B

Chloride SM4500Cl-B

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

4240059

31 T-24-11 (2-3)

32 T-24-11 (3-4)

33 T-24-12 (0-1)

34 T-24-13 (0-1)

35 T-24-13 (2-3)

36 T-24-14 (0-1)

37 T-24-14 (2-3)

38 T-24-15 (0-1)

39 T-24-15 (1-2)

40 T-24-16 (0-1)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER : ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8015M

BTEX 8021B

Chloride SM4500Cl-B

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

4240059

31 T-24-11 (2-3)

32 T-24-11 (3-4)

33 T-24-12 (0-1)

34 T-24-13 (0-1)

35 T-24-13 (2-3)

36 T-24-14 (0-1)

37 T-24-14 (2-3)

38 T-24-15 (0-1)

39 T-24-15 (1-2)

40 T-24-16 (0-1)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER : ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8015M

BTEX 8021B

Chloride SM4500Cl-B

Relinquished By: Cotton Bickstaff

Date: 01/08/24

Received By: [Signature]

Time: 1820

Date: [Signature]

Time: [Signature]

Relinquished By:

Date:

Received By:

Time:

Date:

Time:

Delivered By: (Circle One)

Sample - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Cool Isotect

Yes No

Checked By: [Signature]

Initials

Thermometer ID

Standard

Backs (only) Sample Condition

Observed Temp. °C

Correction Factor

Yes No

Corrected Temp. °C

Verbal Result: Yes No

Add'l Phone #:

REMARKS:

Labeth.Chavira@tetratech.com

FORM-006 R 3.2 10/07/21

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

Page 52 of 53

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech		101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	
Project Manager: Sam Abbott		P.O. #:	
Address: 8911 Capital o Texas Hwy, Suite 2310		Company: Tetra Tech	
City: Austin		Attn: Sam Abbott	
Phone #: (512)565-0190 Fax #: State: TX Zip:		Address: EMAIL	
Project #: 212C-MD-02997A Project Owner: ConocoPhillips		City: State: Zip:	
Project Location: West Brushy & Federal SWD #001		Phone #: Fax #:	
Sampler Name: Colton Bickerstaff		FOR LAB USE ONLY	
Lab I.D.		Sample I.D.	
		(G)RAB OR (C)OMP.	
		# CONTAINERS	
		GROUNDWATER	
		WASTEWATER	
		SOIL	
		OIL	
		SLUDGE	
		OTHER : ACID/BASE:	
		ICE / COOL	
		OTHER :	
		DATE	
		TIME	
		TPH 8015M	
		BTEX 8021B	
		Chloride SM4500Cl-B	
		HOLD	
Relinquished By: Colton Bickerstaff		Received By: [Signature]	
Time: 0820		Date: 01/08/24	
Relinquished By:		Received By:	
Time:		Date:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °C	
		Sample Condition Cool <input checked="" type="checkbox"/> Hot <input type="checkbox"/> Seal <input checked="" type="checkbox"/> No Seal <input type="checkbox"/>	
		CHECKED BY: [Signature] (Initials)	
		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
		Thermometer ID: 4444 Correction Factor: 0.01	
		Observed Temp. °C: 40.1 Corrected Temp. °C: 40.1	
		Remarks: Please HOLD sample ID T-24-13 (3-4)	
		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	
		Add'l Phone #:	
		All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com AND Lisbeth.Chavira@tetratech.com	

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

FORM-006 R 3.2 10/07/21



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

January 16, 2024

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: WEST BRUSHY 8 FED SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 01/11/24 12:10.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 1 (7'-8') (H240134-01)

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	01/13/2024	ND	2.19	110	2.00	0.774	
Toluene*	<0.050	0.050	01/13/2024	ND	2.15	107	2.00	2.74	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.23	112	2.00	3.44	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	6.71	112	6.00	3.60	
Total BTEX	<0.300	0.300	01/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	01/12/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	159	79.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	165	82.6	200	20.0	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 1 (8'-9') (H240134-02)

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	01/13/2024	ND	2.19	110	2.00	0.774		
Toluene*	<0.050	0.050	01/13/2024	ND	2.15	107	2.00	2.74		
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.23	112	2.00	3.44		
Total Xylenes*	<0.150	0.150	01/13/2024	ND	6.71	112	6.00	3.60		
Total BTEX	<0.300	0.300	01/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	01/12/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	159	79.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	165	82.6	200	20.0	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 1 (9'-10') (H240134-03)

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	01/13/2024	ND	2.19	110	2.00	0.774		
Toluene*	<0.050	0.050	01/13/2024	ND	2.15	107	2.00	2.74		
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.23	112	2.00	3.44		
Total Xylenes*	<0.150	0.150	01/13/2024	ND	6.71	112	6.00	3.60		
Total BTEx	<0.300	0.300	01/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	01/12/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	159	79.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	165	82.6	200	20.0	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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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: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 3 (8'-9') (H240134-04)

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	01/13/2024	ND	2.19	110	2.00	0.774		
Toluene*	<0.050	0.050	01/13/2024	ND	2.15	107	2.00	2.74		
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.23	112	2.00	3.44		
Total Xylenes*	<0.150	0.150	01/13/2024	ND	6.71	112	6.00	3.60		
Total BTEX	<0.300	0.300	01/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	01/12/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	159	79.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	165	82.6	200	20.0	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 3 (9'-10') (H240134-05)

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	01/13/2024	ND	2.19	110	2.00	0.774		
Toluene*	<0.050	0.050	01/13/2024	ND	2.15	107	2.00	2.74		
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.23	112	2.00	3.44		
Total Xylenes*	<0.150	0.150	01/13/2024	ND	6.71	112	6.00	3.60		
Total BTEx	<0.300	0.300	01/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	01/12/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	159	79.4	200	21.7	
DRO >C10-C28*	90.7	10.0	01/12/2024	ND	165	82.6	200	20.0	
EXT DRO >C28-C36	98.1	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 3 (10'-11') (H240134-06)

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	01/13/2024	ND	2.19	110	2.00	0.774		
Toluene*	<0.050	0.050	01/13/2024	ND	2.15	107	2.00	2.74		
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.23	112	2.00	3.44		
Total Xylenes*	<0.150	0.150	01/13/2024	ND	6.71	112	6.00	3.60		
Total BTEx	<0.300	0.300	01/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	01/12/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	159	79.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	165	82.6	200	20.0	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

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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: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 4 (9'-10') (H240134-07)

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	01/12/2024	ND	2.36	118	2.00	2.92	
Toluene*	<0.050	0.050	01/12/2024	ND	2.23	111	2.00	4.00	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.34	117	2.00	2.87	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	7.01	117	6.00	2.57	
Total BTEX	<0.300	0.300	01/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1120	16.0	01/12/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	159	79.4	200	21.7	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	165	82.6	200	20.0	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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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: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 4 (10'-11') (H240134-08)

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	01/12/2024	ND	2.36	118	2.00	2.92		
Toluene*	<0.050	0.050	01/12/2024	ND	2.23	111	2.00	4.00		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.34	117	2.00	2.87		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	7.01	117	6.00	2.57		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	01/12/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148

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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: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 11 (4'-5') (H240134-09)

BTX 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	01/13/2024	ND	2.36	118	2.00	2.92	
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57	
Total BTX	<0.300	0.300	01/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1710	16.0	01/12/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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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: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 11 (5'-6') (H240134-10)

BTX 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	01/13/2024	ND	2.36	118	2.00	2.92	
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57	
Total BTX	<0.300	0.300	01/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	01/12/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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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: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 11 (6'-7') (H240134-11)

BTX 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	01/13/2024	ND	2.36	118	2.00	2.92		
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00		
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87		
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57		
Total BTX	<0.300	0.300	01/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	01/12/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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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: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 11 (8'-9') (H240134-12)

BTX 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	01/13/2024	ND	2.36	118	2.00	2.92		
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00		
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87		
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57		
Total BTX	<0.300	0.300	01/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	01/12/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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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: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 15 (2'-3') (H240134-13)

BTX 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	01/13/2024	ND	2.36	118	2.00	2.92		
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00		
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87		
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57		
Total BTX	<0.300	0.300	01/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	01/12/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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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: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 15 (3'-4') (H240134-14)

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	01/13/2024	ND	2.36	118	2.00	2.92	
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57	
Total BTEx	<0.300	0.300	01/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/12/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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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: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 15 (5'-6') (H240134-15)

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	01/13/2024	ND	2.36	118	2.00	2.92	
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57	
Total BTEx	<0.300	0.300	01/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/12/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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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: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 15 (6'-7') (H240134-16)

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	01/13/2024	ND	2.36	118	2.00	2.92		
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00		
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87		
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57		
Total BTEX	<0.300	0.300	01/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	01/12/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.3 % 49.1-148

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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: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 16 (6'-7') (H240134-17)

BTX 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	01/13/2024	ND	2.36	118	2.00	2.92	
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00	
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87	
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57	
Total BTX	<0.300	0.300	01/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	01/12/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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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: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 16 (7'-8') (H240134-18)

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	01/13/2024	ND	2.36	118	2.00	2.92		
Toluene*	<0.050	0.050	01/13/2024	ND	2.23	111	2.00	4.00		
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.34	117	2.00	2.87		
Total Xylenes*	<0.150	0.150	01/13/2024	ND	7.01	117	6.00	2.57		
Total BTEx	<0.300	0.300	01/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	01/12/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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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: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 16 (8'-9') (H240134-19)

BTX 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	01/12/2024	ND	2.21	111	2.00	3.10		
Toluene*	<0.050	0.050	01/12/2024	ND	2.21	111	2.00	3.16		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.21	110	2.00	3.58		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.45	107	6.00	3.37		
Total BTX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	01/12/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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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: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 16 (9'-10') (H240134-20)

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	01/12/2024	ND	2.21	111	2.00	3.10	
Toluene*	<0.050	0.050	01/12/2024	ND	2.21	111	2.00	3.16	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.21	110	2.00	3.58	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.45	107	6.00	3.37	
Total BTEX	<0.300	0.300	01/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	01/12/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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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: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 24 - 16 (14'-15') (H240134-21)

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	01/12/2024	ND	2.21	111	2.00	3.10		
Toluene*	<0.050	0.050	01/12/2024	ND	2.21	111	2.00	3.16		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.21	110	2.00	3.58		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.45	107	6.00	3.37		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	01/12/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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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: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 24 - 5 (0-1') (H240134-22)

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	01/12/2024	ND	2.21	111	2.00	3.10		
Toluene*	<0.050	0.050	01/12/2024	ND	2.21	111	2.00	3.16		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.21	110	2.00	3.58		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.45	107	6.00	3.37		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/12/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 75.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.2 % 49.1-148

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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: 01/11/2024
 Reported: 01/16/2024
 Project Name: WEST BRUSHY 8 FED SWD #1
 Project Number: 212C - MD - 02997A
 Project Location: COP- EDDY COUNTY, NM

Sampling Date: 01/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 24 - 6 (0-1') (H240134-23)

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	01/13/2024	ND	2.21	111	2.00	3.10		
Toluene*	<0.050	0.050	01/13/2024	ND	2.21	111	2.00	3.16		
Ethylbenzene*	<0.050	0.050	01/13/2024	ND	2.21	110	2.00	3.58		
Total Xylenes*	<0.150	0.150	01/13/2024	ND	6.45	107	6.00	3.37		
Total BTEX	<0.300	0.300	01/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/12/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	181	90.3	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	176	88.0	200	15.4	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 27 of 29



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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[illegible]



101 East Marland, Hobbs, NM 88240
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech Project Manager: Sam Abbott Address: 8911 Capital o Texas Hwy, Suite 2310 City: Austin State: TX Zip: _____ Phone #: (512)565-0190 Fax #: _____ Project #: 212C-MD-02951A Project Owner: ConocoPhillips Project Name: West Brushy 8 Federal SWD #001 Project Location: Eddy County, New Mexico Sampler Name: Colton Bickerstaff Phone #: _____ Fax #: _____										BILL TO										ANALYSIS REQUEST																			
										P.O. #: _____ Company: Tetra Tech Attn: Sam Abbott Address: EMAIL _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____																													
Lab I.D. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Sample I.D. H240134 24 BH-24-1 (11-12) 25 BH-24-3 (12-13) 26 BH-24-3 (14-15) 27 BH-24-4 (12-13) 28 BH-24-11 (9-10) </div>										(G)RAB OR (C)OMP. # CONTAINERS										MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :										PRESERV. SAMPLING									
										DATE TIME										TPH 8015M BTEX 8021B Chloride SM4500Cl-B																			
										HOLD																													

PLEASE NOTE: Liability and Damages: Confidentiality and other conditions remain the same when using software based on contract or not, and be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other causes whatsoever shall be deemed waived unless made in writing and received by Carrier within 30 days after the event that triggered the liability for incidental or consequential damages, including without limitation, lost profits, lost sales, or loss of profits incurred by Client. The undersigned, upon receipt of the above stated information, shall be deemed to have accepted the terms and conditions of this contract. Signature of Carrier shall be limited to the performance of services hereunder by Carrier. Signature of Receiver shall be limited to the use of the above stated information or otherwise.

Relinquished By: Colton Bickerstaff Date: 01/11/24										Received By: <i>Shelley Jones</i> Date: 1/10/24									
Relinquished By: _____ Date: _____										Received By: _____ Date: _____									

Delivered By: (Circle One) Sampler - UPS Bus Other: _____										Observed Temp, °C Corrected Temp, °C: 38.0										Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No										CHECKED BY: (Initials) <i>SE</i>									
Thermometer: _____ Correction Factor: <i>0.00</i>										Standard: <input checked="" type="checkbox"/> Reaction (only) Sample: _____ Reuse: <input type="checkbox"/> Cool: <input type="checkbox"/> Observed Temp, °C: _____										Thermometer ID: <i>444</i> # <i>140</i> Correction Factor: <i>0.00</i>																			

REMARKS: PLEASE HOLD ANALYSIS ON LISTED SAMPLES UNTIL FURTHER NOTICE

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:** _____
 All Results are emailed. Please provide Email address: Sam.Abbott@tetratech.com AND Libbeth.Chavira@tetratech.com

APPENDIX H

Seed Mix Details

(27)

BLM Serial #:

Company Reference:

3.2 Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed: Pounds of seed x percent purity x percent germination = pounds pure live seed

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QUESTIONS

Action 335300

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	335300
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1529948530
Incident Name	NAB1529948530 WEST BRUSHY 8 FEDERAL SWD #001 @ 30-015-31675
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-31675] WEST BRUSHY 8 FEDERAL SWD #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	WEST BRUSHY 8 FEDERAL SWD #001
Date Release Discovered	09/13/2015
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 30 BBL Recovered: 3 BBL Lost: 27 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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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QUESTIONS, Page 2

Action 335300

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	335300
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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 04/19/2024
--	--

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QUESTIONS, Page 3

Action 335300

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	335300
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 release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report 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.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	4280
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	211
GRO+DRO	(EPA SW-846 Method 8015M)	211
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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.

On what estimated date will the remediation commence	06/30/2024
On what date will (or did) the final sampling or liner inspection occur	07/26/2024
On what date will (or was) the remediation complete(d)	07/29/2024
What is the estimated surface area (in square feet) that will be reclaimed	20700
What is the estimated volume (in cubic yards) that will be reclaimed	1920
What is the estimated surface area (in square feet) that will be remediated	20700
What is the estimated volume (in cubic yards) that will be remediated	1920

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 335300

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	335300
	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.)	Yes
Which OCD approved facility will be used for off-site disposal	OWL LANDFILL JAL [fJEG1635837366]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	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)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 04/19/2024
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 335300

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 335300
	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 335300

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	335300
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 335300

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 335300
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation plan approved.	4/24/2024
amaxwell	Submit a report via the OCD permitting portal by August 28, 2024.	4/24/2024