TETRA TECH

November 7, 2024

District Supervisor
Oil Conservation Division, District 1
811 South First Street
Artesia, New Mexico 88210

Re: Reclamation Report and Closure Request
Maverick Permian, LLC
EVGSAU Santa Fe 133 Trunkline Release
Unit Letter Unit Letter C, Section 29, Township 17 South, Range 35 East
Lea County, New Mexico
Incident ID# nPAC0605538935

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was contracted by ConocoPhillips Company (COP) to assess a historical release that occurred at the East Vacuum Glorietta San Andres Unit (EVGSAU) Santa Fe 133 Battery. The release footprint is located in Public Land Survey System (PLSS) Unit Letter C, Section 29, Township 17 South, Range 35 East, in Lea County, New Mexico (Site). The release occurred at coordinates 32.79163°, -103.49285°, as shown in **Figure 1** and **Figure 2**. Maverick Permian, LLC (Maverick) acquired this site from COP in 2022 and contracted Tetra Tech to complete remediation of the release at the Site.

BACKGROUND

According to the State of New Mexico C-141 Initial Report, the release was discovered on October 25, 2004. According to the C-141, the release occurred due to a bullet hole in the trunk line at the Santa Fe 133 Battery. The release consisted of 5 barrels (bbls) of oil and 2 bbls of produced water affecting a 150-foot by 20-foot area of pasture. During immediate response actions, a vacuum truck recovered 4 bbls of oil and 1 bbl of produced water. The New Mexico Oil Conservation District (NMOCD) received the C-141 report form for the release on January 5, 2005, and subsequently assigned the release Incident ID nPAC0605538935. This release is included in an Agreed Compliance Order-Releases (ACO-R) between COP and the NMOCD fully executed on May 9, 2019.

SITE CHARACTERIZATION

Receptors

Tetra Tech performed a site characterization for the release location. It did not identify any watercourses, sinkholes, playas, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains within the distances specified in 19.15.29.11 New Mexico Administrative Code (NMAC). Based on a review of the NMOCD Mapper, the site is in an area of low karst potential, as shown in **Attachment 1**.

Depth to Groundwater

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, six (6) water wells are within ½-mile of the site, of which three water wells (L 14183 POD1, L 14183 POD2, and L 14183 POD3) have groundwater level data reported as less than 25 years old. Based on available data that is less than 25 years old, the shallowest

Tetra Tech, Inc.
1500 CityWest Boulevard, Suite 1000, Houston, Texas 77042
Tel +1.832.251.5160 | tetratech.com/oga | tetratech.com

depth to groundwater within ½ mile of the Site is reported as 104 feet below the ground surface (bgs). The site characterization data is included in **Attachment 1**.

Soils

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is mapped as having Kimbrough-Lea complex, dry, 0 to 3 percent slopes, which is classified as a loam with a published soil profile of gravelly loam from the surface to 3 inches below ground surface (bgs), loam from 3 to 10 inches bgs, and cemented material from 10 to 80 inches bgs. The USDA NCRS Soil Map and soil profile are provided in **Attachment 1**.

REGULATORY FRAMEWORK

Based upon the release footprint location and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX), Total Petroleum Hydrocarbons (TPH), and chloride in soil.

Based on the proven depth to water and distances to potential receptors, and in accordance with Table I of 19.15.29.12 NMAC, the following are the remediation RRALs for the Site for groundwater greater than 100 feet bgs:

Closure Criteria for Soils Impacted by a Release

Constituent	Remediation RRAL
Chloride	20,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Additionally, in accordance with the New Mexico Oil Conservation District (NMOCD) guidance *Procedures for Implementation of the Spill Rule (19.15.29 NMAC)* dated September 6, 2019, the following Reclamation Requirements for surface soils (0-4 feet bgs) are as follows:

Reclamation Requirements

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

SITE ASSESSMENT

Initial Site Assessment

On behalf of COP, BBC International Inc. (BBC) conducted an investigation at the Santa Fe 133 Battery release area and documented their findings in an Environmental Site Investigation (ESI) report dated November 4, 2004. During this investigation, BBC collected samples at a depth of 1 foot bgs from two sample locations: SP-1, located at the west end of the release extent, and SP-2, located at the east end of the release extent. A total of two samples were taken to Cardinal Laboratories in Hobbs, New Mexico, and analyzed for BTEX, TPH (GRO and DRO), and chloride. A diagram of the release and sample locations was provided in Appendix II of the ESI report.

Analytical results associated with both locations (SP-1 and SP-2) reported concentrations greater than the Reclamation Requirement of 600 mg/kg for chloride. Copies of the analytical laboratory report and chain-of-custody documentation are included in Appendix I of the ESI report along with the sample results. Horizontal and vertical delineation of the release were not achieved during the BBC assessment.

The ESI report concluded with the recommendation that the impacted soil be excavated to the rock layer that occurs at approximately 1 foot bgs. There is no documentation that the recommended remedial actions were taken. During a visual Site inspection conducted by Tetra Tech in June 2020, the release area footprint appeared discolored and devoid of vegetation.

Additional Site Assessment

On behalf of COP, Tetra Tech personnel returned to the Site on October 28 and 29, 2020 to conduct soil sampling to complete horizontal and vertical delineation of the release. Three (3) borings (BH-1 through BH-3) were installed using an air rotary drilling rig to a depth of 30 feet bgs within the release extent to delineate the depth of impact. Four (4) borings (BH-4 through BH-7) were installed along the perimeter of the release extent to depths of 4 feet bgs to confirm horizontal delineation of the release. Soils at the Site consist of approximately 1.5 feet of brown silty clay underlain by a caliche cap rock.

A total of twenty-nine (29) samples were collected from the seven (7) borings (BH-1 through BH-7) and submitted to Pace Analytical National Center for Testing & Innovation (Pace) in Mount Juliet, Tennessee for analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method 300.0. Tetra Tech Site Assessment locations are detailed in **Table 1**.

Site Assessment Results

The analytical results associated with one interior boring location (BH-2) reported Total TPH at a concentration greater than the Reclamation Requirement in the sample intervals from the top 3 feet. There were no other analytical results that reported constituents at concentrations greater than Reclamation Requirements or RRALs for BTEX and chloride in interior boring locations (BH-1 through BH-3). The analytical results for samples collected from the perimeter borings (BH-4 through BH-7) reported constituent concentrations as less than Reclamation Requirements and the release extent was horizontally and vertically delineated. **Table 2** presents Tetra Tech Site Assessment results screened against Reclamation Requirements and laboratory analytical data packages including chain of custody documentation are provided in **Attachment 2**.

NMOCD-APPROVED REMEDIATION WORK PLAN

Based on the Site Assessment analytical results, Tetra Tech prepared a Remediation Work Plan on behalf of ConocoPhillips that proposed to remove the remaining impacted material as shown in **Figure 4**. Impacted soils were proposed to be excavated using heavy equipment to a depth of 4 feet bgs or until representative confirmation samples from excavation bases and sidewalls reported constituent concentrations as less than Reclamation Requirements or RRALs, as appropriate.

Excavated soils were proposed to be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples were to be collected to verify remedial activities and analyzed for TPH, BTEX, and chloride. Upon completion of remediation, the excavation was to be backfilled with clean material to surface grade. The impacted material to be remediated in the Remediation Work Plan was estimated to be approximately 310 cubic yards.

Alternative Confirmation Sampling Plan

In accordance with 19.15.29.12(D)(1)(b) NMAC, COP proposed an alternative confirmation sampling plan for floor and sidewall samples to be representative of no more than approximately 500 square feet of excavated area for laboratory analysis of BTEX, TPH, and chloride. The NMOCD approved the alternative confirmation sampling plan on April 18, 2023.

NMOCD Remediation Work Plan Approval

The NMOCD approved the ConocoPhillips Remediation Work Plan on April 18, 2023, with the following conditions:

- *"Please make sure the floor confirmation samples are delineated/excavated to meet closure criteria standards for proven depth to water determination."*
- *"Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release."*
- *"The Variance is approved for collecting Five (5) confirmation floor samples and eight (8) confirmation sidewall samples as proposed for verification of remedial activities."*

ARCHEOLOGICAL SURVEY

To comply with 1.10.15 NMAC and New Mexico State Land Office (NMSLO) requirements, Tetra Tech conducted an Archaeological Survey for the Site under New Mexico Cultural Resources Information System (NMCRIS) Activity 15782. The Archeological Survey findings under NMCRIS Activity Number were reported as Negative – No further archaeological review is required for the project area within NMSLO-managed lands on and surrounding the EVGSAU Santa Fe #133 remediation project site on lease number B023540008. No subsurface cultural materials were encountered during remediation activities. The NMSLO Cultural Resource Cover Sheet is provided in **Attachment 3**.

REMEDIATION AND CONFIRMATION SAMPLING

Excavation activities commenced on June 18, 2024, and concluded on June 19, 2024. Maverick's subcontractor, Standard Safety (Standard), used heavy equipment to excavate impacted soil from the remediation area to a maximum depth of four (4) feet bgs. To avoid potential contact by heavy equipment with pressurized lines within the remediation area, heavy equipment was maintained at a distance of at least 2 feet from pressurized lines where hydro-excavation and hand-digging were employed.

Standard excavated a total of 344 cubic yards of contaminated soil from an approximately 2,325-square-foot area and transported the soil to R360 for offsite disposal. Photographs of the final excavation are provided in **Attachment 4**.

Confirmation Sampling Notification

On June 16, 2024, Tetra Tech notified the NMOCD of the anticipated initial confirmation sampling through the submission of a C-141N Sampling Notification submission in the NMOCD ePermitting portal and provided subsequent C-141N Sampling Notification submissions through the NMOCD ePermitting portal to cover final confirmation sampling conducted on June 25, 2024.

Confirmation Sampling

Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected 14 final confirmation samples, including six (6) 5-point composite floor samples and eight (8) five-point composite side wall samples from the excavated areas. The remediation excavation confirmation sampling area comprised an approximately 2325 square foot base and 775 square feet of sidewall for a total area of 3,100 square feet and a sampling density of approximately one (1) confirmation sample per 222 square feet.

Recently, Tetra Tech was advised that the NMOCD will require sample collection times to be recorded on chain-of-custody documentation. Tetra Tech received this feedback from the NMOCD for the first time on June 20, 2024. Tetra Tech conducted this sampling shortly after receiving feedback regarding sample time documentation, and therefore, sample times have not been recorded for submitted samples for this remediation.

Samples were submitted to Cardinal Laboratory in Hobbs, New Mexico, to analyze BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method SM4500 CL-B. Laboratory analytical results for final confirmation samples reported concentrations of BTEX, TPH, and chloride as less than respective Reclamation Requirements demonstrating clean margins. Confirmation sample laboratory analytical results screened against Reclamation Requirements are summarized in **Table 3**, and laboratory analytical data packages, including chain of custody documentation remediation confirmation sampling, are included in **Attachment 2**. Confirmation sampling locations and excavation extents are shown in **Figure 5**.

Excavation Backfill

On July 5, 2024, subsequent to the receipt of final confirmation sampling results, Standard completed the backfilling of the excavated areas with 256 cubic yards of clean soil sourced from Boyd Pit. Photographic Documentation showing the excavated areas and final grading after backfilling is provided in **Attachment 4**.

Reclamation and Revegetation

To restore the impacted surface areas to the condition that existed prior to the release, the excavated areas have been backfilled with clean topsoil, and disturbed areas of impacted pastureland have been graded back to match the surrounding topography and the pre-existing condition prior to contouring to provide erosion control, long-term stability, prevent ponding of water, and preserve surface water flow patterns.

Subsequent to restoring topography and contouring the disturbed areas, disturbed areas of the Site as shown in **Figure 4** and **Figure 5** were seeded with New Mexico State Land Office (NMSLO) Loamy (L) Sites Seed Mixture in accordance with the Site soil profile detailed above in the Site Characterization Section, to aid in vegetation growth to complete reclamation. Seeding was conducted with a seed drill at the application rates specified for seed drill application in pound pure live seed per acre according to the NMSLO Seed Mix Loamy (L) data sheet provided in **Attachment 5**.

CONCLUSION

Based on the confirmation sampling results, the impacted soil within the release footprint with concentrations greater than Reclamation Requirements has been removed and properly disposed of offsite, the excavated area has been backfilled with clean material, and the surface of the well pad has been restored; therefore, Site remediation and reclamation is complete. Revegetation will be monitored and a Revegetation Report will be prepared and submitted to the NMOCD once revegetation requirements have been achieved at the Site. If you have any questions concerning the remediation activities for the Site, please contact Chris Straub by phone at (832) 251-5180 or by email at chris.straub@tetratech.com.

Sincerely,

Chris Straub
Project Manager
Tetra Tech, Inc.

Charles H. Terhune IV, P.G.
Program Manager
Tetra Tech, Inc.

cc: Bryce Wagoner, Maverick Permian, LLC
New Mexico State Land Office

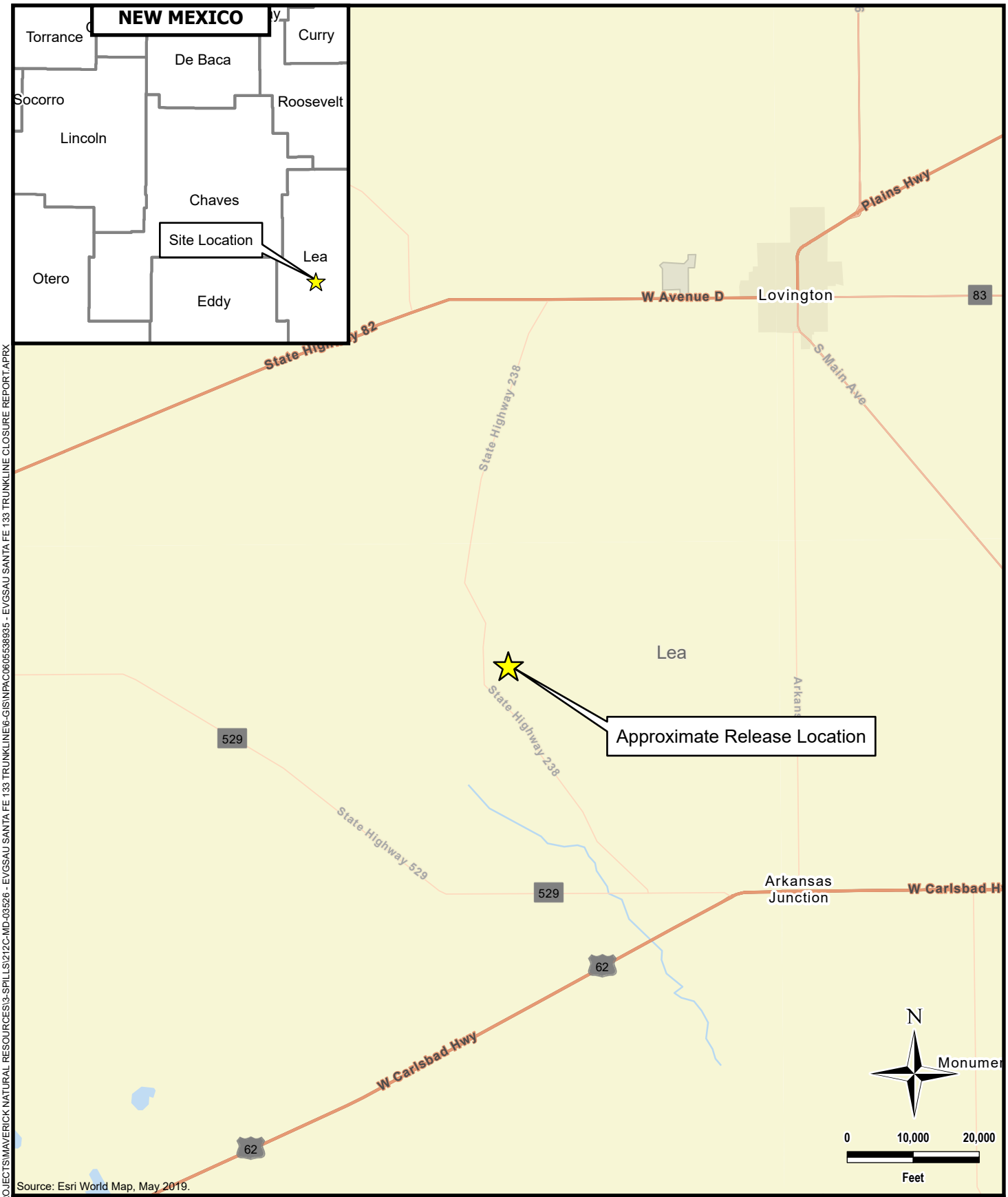
LIST OF ATTACHMENTS

Figures

Tables

Attachments

FIGURES



DOCUMENT PATH: S:\NEW PROJECTS\MAVERICK NATURAL RESOURCES\3-SPILLS\212C-MD-03526 - EVGSAU SANTA FE 133 TRUNKLINE\6-GIS\NPAC0505538935 - EVGSAU SANTA FE 133 TRUNKLINE CLOSURE REPORT.APRX

MAVERICK NATURAL RESOURCES

TETRA TECH

SITE LOCATION MAP

nPAC0505538935

EVGSAU Santa Fe 133 Trunkline

(32.79163°, -103.49285°)

LEA COUNTY, NEW MEXICO

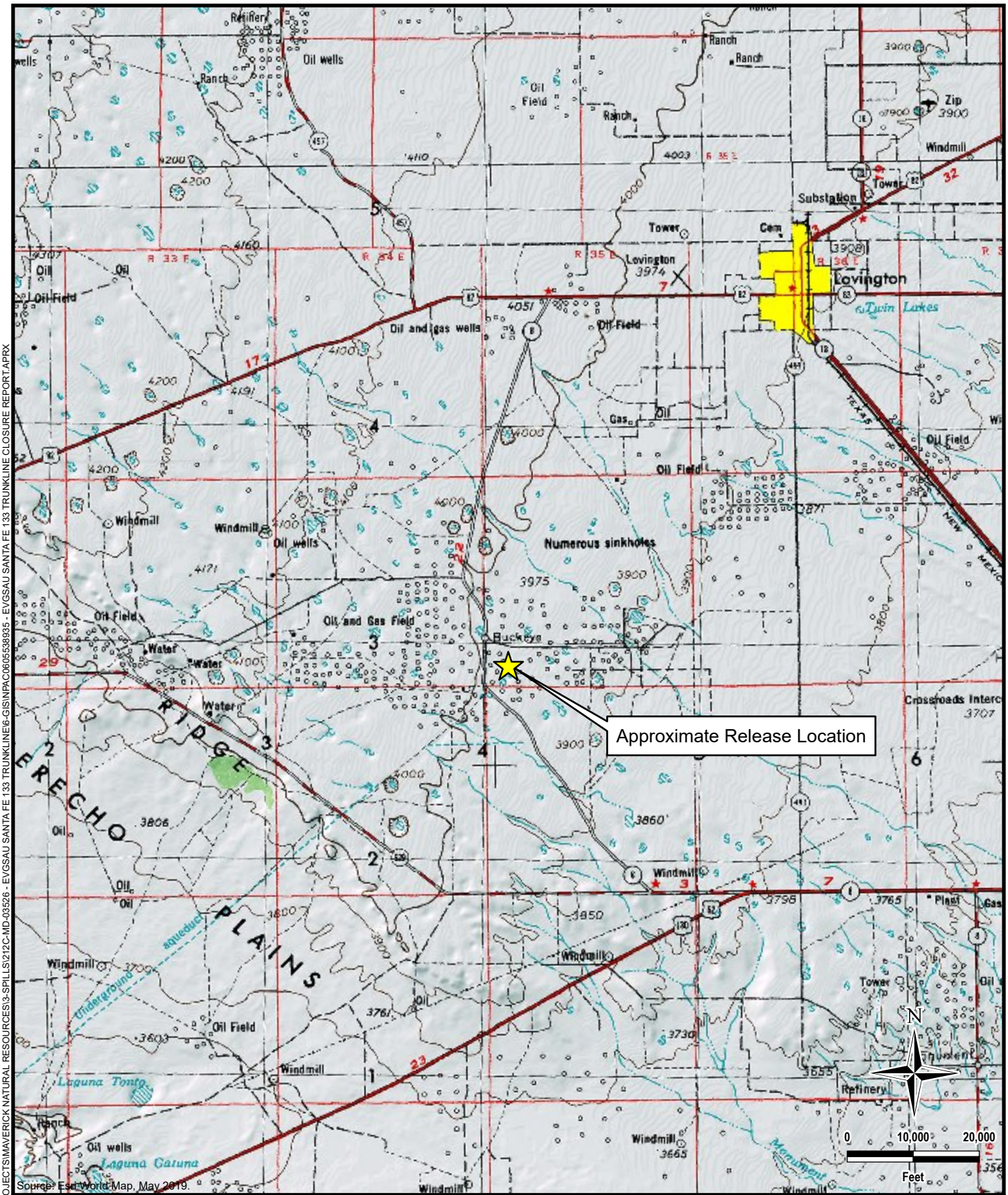
Figure No.

1

PROJECT NO.: 212C-MD-03448

DATE: 9/23/2024

DESIGNED BY: ACP



Source: Esri World Map, May 2019.

DOCUMENT PATH: S:\NEW PROJECTS\MAVERICK NATURAL RESOURCES\0-SPILLS\212C-MD-03526 - EVGSAU SANTA FE 133 TRUNKLINE\6-GIS\NPAC0505538935 - EVGSAU SANTA FE 133 TRUNKLINE CLOSURE REPORT.APRX

MAVERICK NATURAL RESOURCES

TETRA TECH

TOPOGRAPHIC MAP

nPAC0505538935

EVGSAU Santa Fe 133 Trunkline

(32.79163°, -103.49285°)

LEA COUNTY, NEW MEXICO

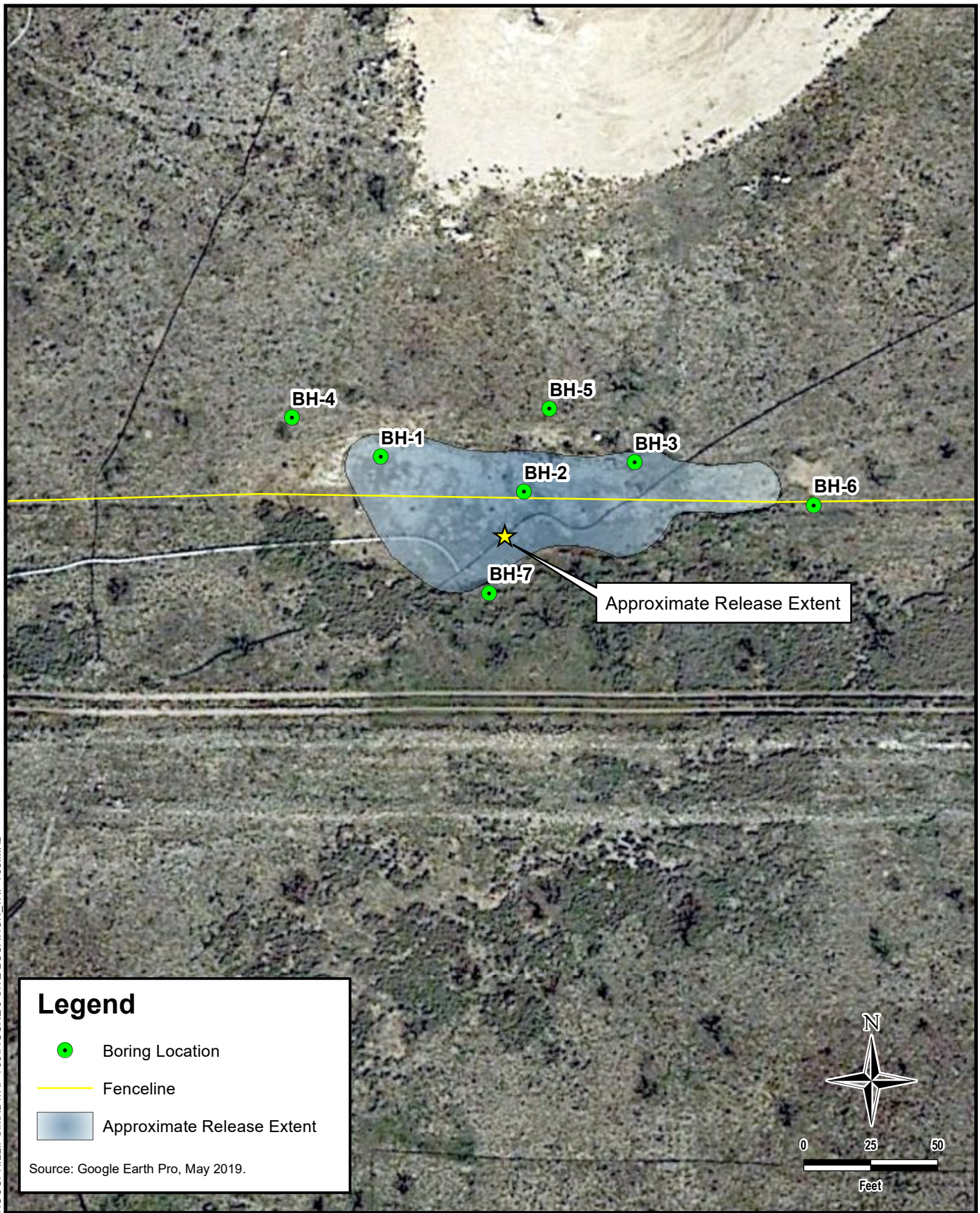
Figure No.

2

PROJECT NO.: 212C-MD-03448

DATE: 9/23/2024

DESIGNED BY: ACP



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-735\FIGURE 3 SITE LOCATION_1RP-735.MXD

TETRA TECH

www.tetratech.com

901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

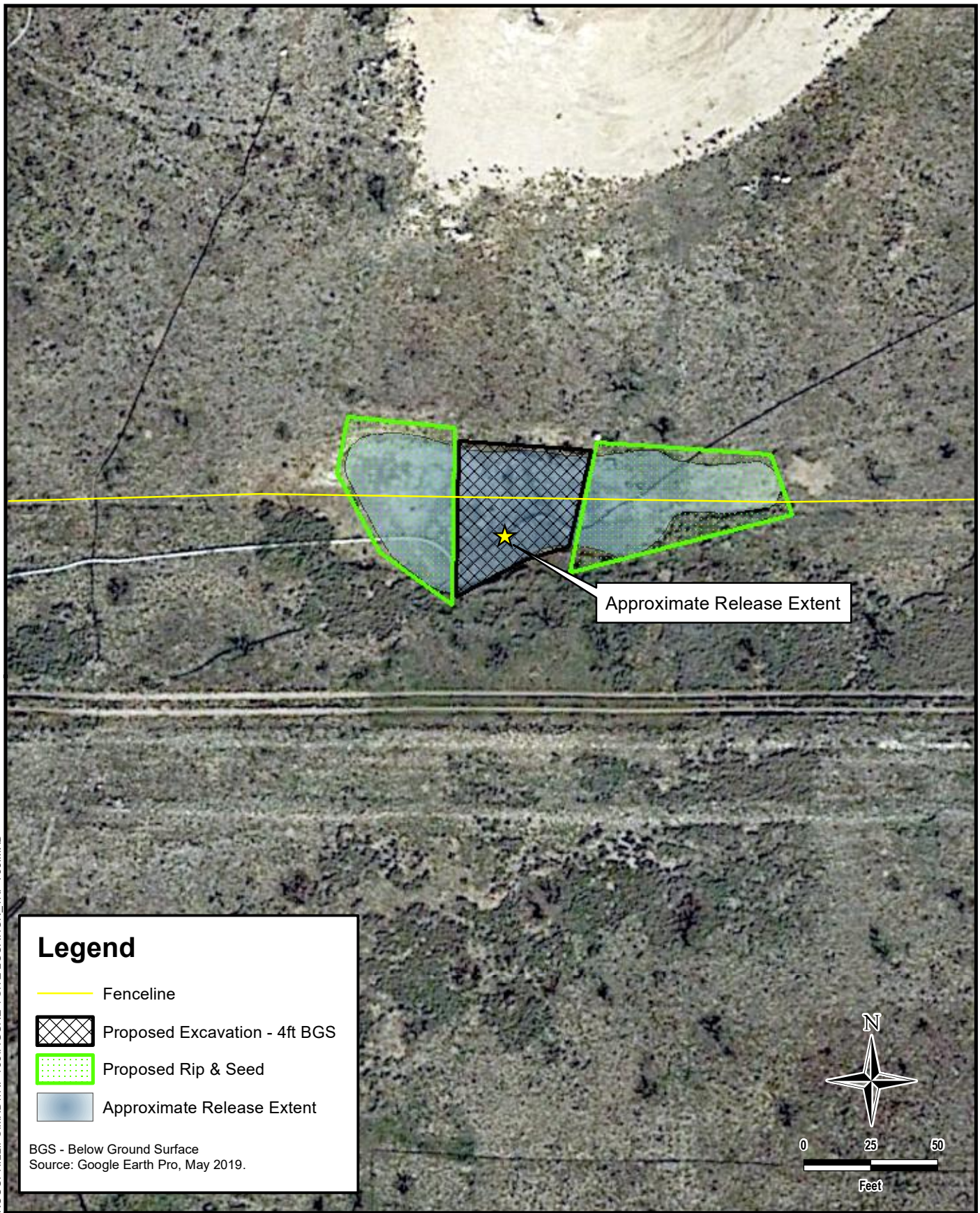
MAVERICK PERMIAN, LLC

nPAC0605538935
(32.791633°, -103.49285°)
LEA COUNTY, NEW MEXICO

EVGSAU SANTA FE 133 BATTERY TRUNK LINE RELEASE
RELEASE EXTENT AND SITE ASSESSMENT

PROJECT NO.:	212C-MD-02334
DATE:	DECEMBER 16, 2020
DESIGNED BY:	AAM

Figure No.
3



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\1RP-735\FIGURE 4 SITE LOCATION_1RP-735.MXD

TETRA TECH

www.tetratech.com

901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

MAVERICK PERMIAN, LLC

nPAC0605538935
(32.791633°, -103.49285°)
LEA COUNTY, NEW MEXICO

EVGSAU SANTA FE 133 BATTERY TRUNK LINE RELEASE
PROPOSED REMEDIATION EXTENT

PROJECT NO.:	212C-MD-02334
DATE:	DECEMBER 16, 2020
DESIGNED BY:	AAM

Figure No.
4

Source: Esri World Map, May 2019.

DOCUMENT PATH: \\TT\LOCAL\GFS\USVOLUME4\LEGACY\TTS099FS1\OGA\SHARED\NEW PROJECTS\MAVERICK NATURAL RESOURCES\3-SPILLS\212C-MD-03526 - EVGSAU SANTA FE 133 TRUNKLINE\6-GIS\NPAC0605538935 - EVGSAU SANTA FE 133 TRUNKLINE CLOSURE REPORT.APRX

MAVERICK NATURAL RESOURCES

TETRA TECH

REMEDIATION EXTENT AND CONFIRMATION SAMPLING

nPAC0505538935

EVGSAU Santa Fe 133 Trunkline

(32.79163°, -103.49285°)

LEA COUNTY, NEW MEXICO

Figure No.

5

PROJECT NO.:	212C-MD-03448
DATE:	11/6/2024
DESIGNED BY:	ACP

TABLES

TABLE 1
SOIL ASSESSMENT LOCATIONS
INCIDENT NPAC0605538935
MAVERICK PERMIAN, LLC
EVGSAU Santa Fe #133 TRUNKLINE RELEASE
LEA COUNTY, NEW MEXICO

Boring ID	Date	Latitude	Longitude
BH-1	10/29/2020	32.791535	-103.493053
BH-2	10/29/2020	32.791498	-103.492878
BH-3	10/29/2020	32.791528	-103.492744
BH-4	10/30/2020	32.791576	-103.493160
BH-5	10/30/2020	32.791583	-103.492847
BH-6	10/30/2020	32.791482	-103.492527
BH-7	10/30/2020	32.791395	-103.492922

TETRA TECH

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT SAMPLING - INCIDENT nPAC0605538935
MAVERICK PERMIAN, LLC
EVGSAU SANTA FE #133 TRUNKLINE RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]										TPH[3]							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO C_6 - C_{10}		DRO > C_{10} - C_{28}		EXT DRO > C_{28} - C_{36}		Total TPH (GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			**600**		**10**								**50**								**100**	
BH-1	10/29/2020	0 - 1	< 21.1		<0.00111		<0.00555		<0.00277		0.00152	J	0.00152		< 0.105		17.2		44		61.2	
		2 - 3	< 21.2		<0.00112		<0.00561		<0.00281		0.00152	J	0.00152		< 0.106		11.1		25.9		37	
		4 - 5	< 20.7		<0.00107		<0.00537		<0.00268		0.00145	J	0.00145		0.0516	B J	2.12	J	3.64	J	5.8116	
		6 - 7	61.1		<0.00108		<0.00541		<0.00271		<0.00704		-		0.036	B J	< 4.16		1.05	J	1.086	
		9 - 10	24.1		<0.00101		<0.00507		<0.00253		<0.00659		-		0.0687	B J	31.5		39.9		71.4687	
		14 - 15	< 20.1		<0.00101		<0.00507		<0.00254		<0.00660		-		< 0.102		< 4.03		0.81	J	0.81	
		19 - 20	46.9		<0.00109		<0.00546		<0.00273		<0.00710		-		< 0.105		< 4.19		0.354	J	0.354	
BH-2	10/29/2020	0 - 1	< 21.4		<0.00114		<0.00568		<0.00284		0.00117	J	0.00117		0.048	B J	404		126		**530.048**	
		2 - 3	< 21.5		<0.00115		<0.00575		<0.00288		<0.00748		-		< 0.108		56.2		120		**176.2**	
		4 - 5	16.2	J	0.000657	J	<0.00548		<0.00274		0.000986	J	0.001643		0.0346	B J	5.48		4.11	J	9.6246	
		6 - 7	40.1		<0.00118		<0.00591		<0.00296		<0.00768		-		< 0.109		3.45	J	1.69	J	5.14	
		9 - 10	408		<0.00114		<0.00571		<0.00286		<0.00742		-		< 0.107		3.73	J	< 4.28		3.73	
		14 - 15	306		<0.00112		<0.00562		<0.00281		<0.00731		-		0.0247	B J	< 4.25		0.39	J	0.4147	
		19 - 20	296		0.000776	J	0.00257	J	0.000998	J	0.00561	J	0.009954		0.0283	B J	< 4.22		0.963	J	0.9913	
BH-3	10/29/2020	0 - 1	9.85	J	<0.00112		<0.00558		<0.00279		<0.00725		-		0.0267	B J	< 4.23		9.19		9.2167	
		2 - 3	< 21.1		<0.00111		<0.00553		<0.00276		<0.00719		-		0.027	B J	< 4.21		6.61		6.637	
		4 - 5	< 21.4		<0.00114		<0.0057		<0.00285		0.00103	J	0.00103		0.0259	B J	< 4.28		1.08	J	1.1059	
		6 - 7	< 21.8		<0.00118		<0.0059		<0.00295		<0.00767		-		< 0.109		< 4.36		< 4.36		-	
		9 - 10	136		<0.00120		<0.0060		<0.0030		0.00117	J	0.00117		< 0.110		< 4.40		< 4.40		-	
		14 - 15	284		<0.00114		<0.00571		<0.00286		0.00109	J	0.00109		< 0.107		< 4.28		< 4.28		-	
		19 - 20	151		<0.00116		<0.00578		<0.00289		<0.00752		-		< 0.108		< 4.31		< 4.31		-	
BH-4	10/30/2020	0 - 1	< 20.4		<0.00104		<0.00521		<0.00261		0.00104	J	0.00104		< 0.102		8.09		13.6		21.69	
		3 - 4	< 20.3		<0.00103		<0.00517		<0.00259		0.00101	J	0.00101		< 0.103		< 4.07		2.52	J	2.52	
BH-5	10/30/2020	0 - 1	30.2		<0.00107		<0.00537		<0.00269		<0.00698		-		< 0.105		< 4.15		7.47		7.47	
		3 - 4	52.3		<0.00105		<0.00523		<0.00261		<0.00680		-		< 0.102		2.22	J	6.16		8.38	
BH-6	10/30/2020	0 - 1	< 20.7		<0.00107		<0.00534		<0.00267		0.00123	J	0.00123		< 0.103		< 4.13		0.712	J	0.712	
		3 - 4	< 20.3		<0.00103		<0.00517		<0.00258		<0.00672		-		< 0.102		< 4.07		0.337	J	0.337	
BH-7	10/30/2020	0 - 1	< 20.5		<0.00105		<0.00524		<0.00262		<0.00682		-		< 0.102		1.84	J	6.02		7.86	
		3 - 4	< 20.7		<0.00107		<0.00535		<0.00267		0.00121	J	0.00121		< 0.103		< 4.14		0.757	J	0.757	

NOTES:

bgs: Below ground surface
mg/kg: Milligrams per kilogram
TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics

1: Method 300.0
2: Method 8021B
3: Method 8015M

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC).

TETRA TECH

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
SOIL CONFIRMATION SAMPLING - INCIDENT NPAC0605538935
MAVERICK PERMIAN, LLC
EVGSAU SANTA FE #133 TRUNKLINE RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride[1]		BTEX[2]										TPH[3]							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH	
															C_6 - C_{10}		> C_{10} - C_{28}		> C_{28} - C_{36}		(GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			**600**		**10**								**50**								**100**	
BH - 1 (4')	6/25/2024	4.0 - 4.5	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 2 (4')	6/25/2024	4.0 - 4.5	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 3 (4')	6/25/2024	4.0 - 4.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 4 (4')	6/25/2024	4.0 - 4.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 5 (4')	6/25/2024	4.0 - 4.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 6 (4')	6/25/2024	4.0 - 4.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 1	6/25/2024	0.0 - 4.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 2	6/25/2024	0.0 - 4.0	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 3	6/25/2024	0.0 - 4.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 4	6/25/2024	0.0 - 4.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 5	6/25/2024	0.0 - 4.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 6	6/25/2024	0.0 - 4.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 7	6/25/2024	0.0 - 4.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 8	6/25/2024	0.0 - 4.0	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

NOTES:

bgs: Below ground surface
mg/kg: Milligrams per kilogram
TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics

1: Method SM4500Cl-B
2: Method 8021B
3: Method 8015M

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC).
Laterally or vertically over excavated and resampled

ATTACHMENT 1 – SITE CHARACTERIZATION DATA

EVGSAU Santa Fe 133 Trunkline OCD Well Locations

9/19/2024, 2:37:24 PM

1:4,514

0 0.03 0.07 0.13 mi

0 0.05 0.1 0.2 km

Wells - Large Scale

- Injection, Active
- Injection, Plugged
- Oil, Active
- Oil, Cancelled
- Oil, New
- Oil, Plugged

Karst Occurrence Potential

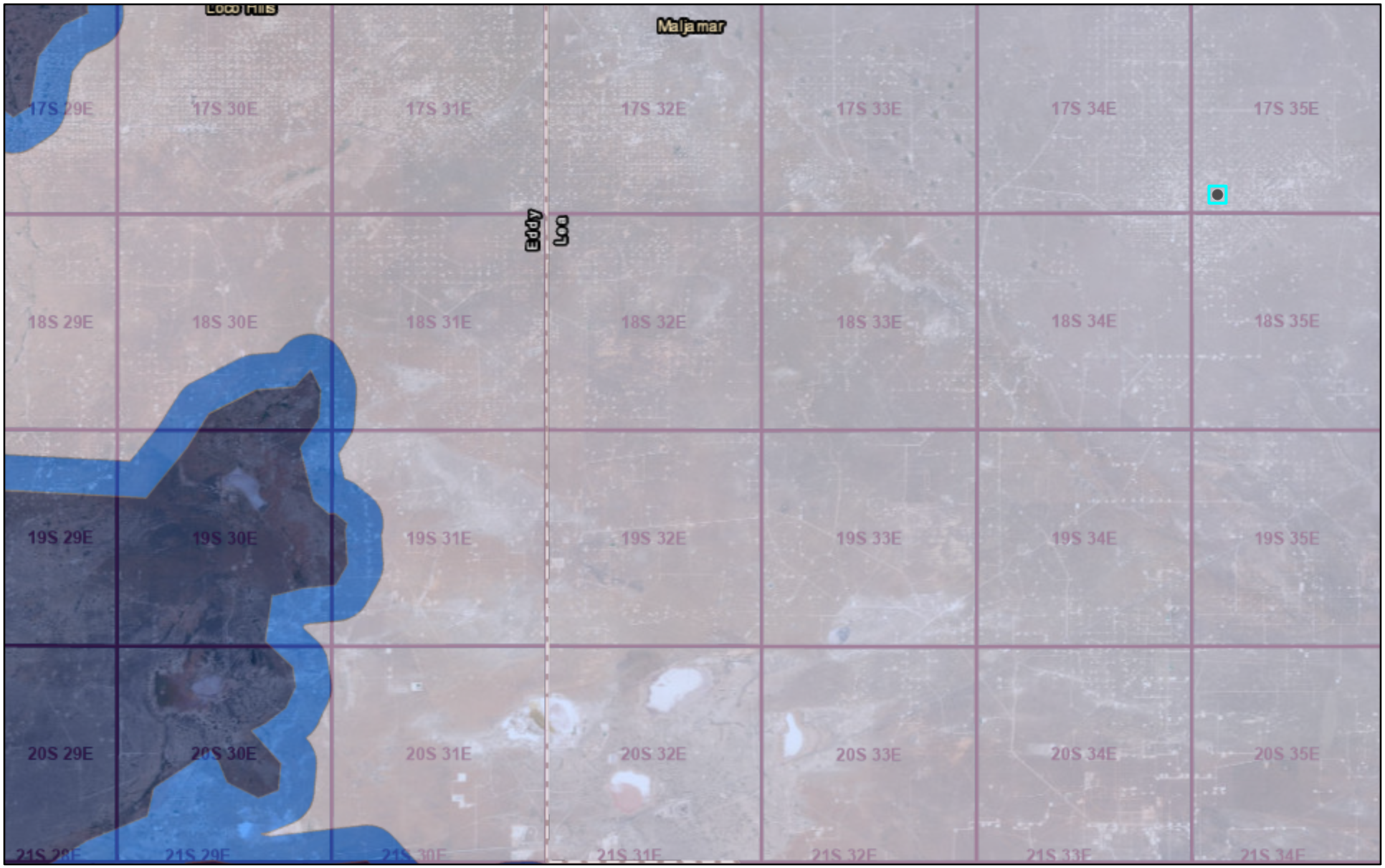
- Low
- OSW Water Bodys
- OSE Probable Playas
- PLSS Second Division
- PLSS First Division

BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., USGS, OCD, Esri,

New Mexico Oil Conservation Division

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

EVGSAU Santa Fe 133 Trunkline Karst Potential Map



9/19/2024, 2:42:48 PM

Karst Occurrence Potential

High

Medium

Low

PLSS Townships

1:288,895

0 2 4 8 mi

0 3.25 6.5 13 km

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

New Mexico Oil Conservation Division

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

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed) (quarters are smallest to largest) (meters) (In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
L 03875 S2	R	L	LE			NE	31	17S	35E	641131.0	3629576.0 *		391	120	95	25
L 03875 S4		L	LE			NE	31	17S	35E	641131.0	3629576.0 *		391	120		
L 14183 POD1		L	LE	SW	NE	NE	31	17S	35E	641266.4	3629667.1		501	229	106	123
L 14183 POD2		L	LE	SW	NE	NE	31	17S	35E	641304.0	3629691.0		535	227	105	122
L 14183 POD3		L	LE	SW	NE	NE	31	17S	35E	641213.2	3629731.0		552	227	104	123
L 03874		L	LE	SW	NW	NE	31	17S	35E	640823.0	3629678.0 *		580	229	90	139

Average Depth to Water: **100 feet**

Minimum Depth: **90 feet**

Maximum Depth: **106 feet**

Record Count: 6

Basin/County Search:
County: LE

UTM Filters (in meters):
Easting: 641128.49
Northing: 3629184.86
Radius: 800

*** UTM location was derived from PLSS - see Help**

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

Received by OCD: 11/7/2024 2:03:41 PM

U.S. Fish and Wildlife Service
National Wetlands Inventory

EVGSAU Santa Fe #133 Wetlands

November 7, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

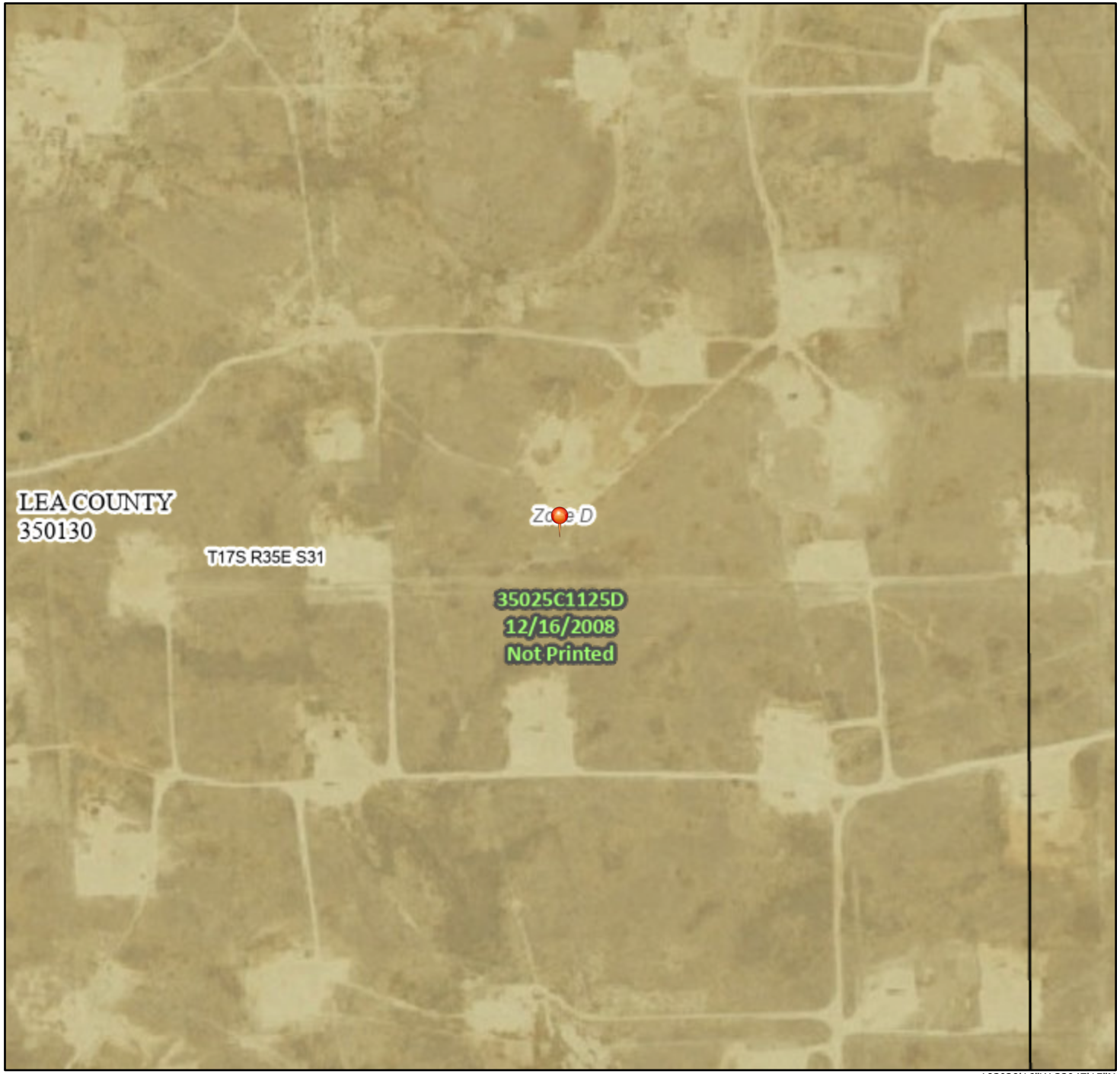
Released to Imaging: 12/18/2024 2:18:02 PM

Received by OCD: 11/7/2024 2:03:41 PM

National Flood Hazard Layer FIRMette

FEMA

103°29'53"W 32°47'45"N



103°29'16"W 32°47'15"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

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
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 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

N

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 9/19/2024 at 3:17 PM 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.

Released to Imaging: 12/18/2024 2:18:02 PM

Soil Map—Lea County, New Mexico

Received by OCD: 11/7/2024 2:03:41 PM

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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

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

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

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

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

Released to Imaging: 12/18/2024 2:18:02 PM

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	1.5	100.0%
Totals for Area of Interest		**1.5**	**100.0%**

Lea County, New Mexico

KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw46
Elevation: 2,500 to 4,800 feet
Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 57 to 63 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 45 percent
Lea and similar soils: 25 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough

Setting

Landform: Playa rims, plains
Down-slope shape: Convex, linear
Across-slope shape: Concave, linear
Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam
Bw - 3 to 10 inches: loam
Bkkm1 - 10 to 16 inches: cemented material
Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 4 to 18 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 95 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Description of Lea

Setting

Landform: Plains
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

Typical profile

A - 0 to 10 inches: loam
Bk - 10 to 18 inches: loam
Bkk - 18 to 26 inches: gravelly fine sandy loam
Bkkm - 26 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 22 to 30 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 90 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 3.0
Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Hydric soil rating: No

Minor Components

Kenhill

Percent of map unit: 12 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY038TX - Clay Loam 12-17" PZ
Hydric soil rating: No

Received by OCD: 11/7/2024 2:03:41 PM

Douro

Percent of map unit: 12 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Other vegetative classification: Unnamed (G077DH000TX)
Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent
Landform: Playa rims, plains
Down-slope shape: Convex, linear
Across-slope shape: Linear
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Other vegetative classification: Unnamed (G077DH000TX)
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

Released to Imaging: 12/18/2024 2:18:02 PM

ATTACHMENT 2 – LABORATORY ANALYTICAL DATA

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

November 11, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1280672
Samples Received:	11/03/2020
Project Number:	212C-MD-02334 TASK3
Description:	EVGSAU Santa Fe 133 Battery Trunk Line Release

Report To: Christian Llull
901 West Wall
Suite 100
Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

TABLE OF CONTENTS

BH-1 (0'-1') L1280672-01 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 11:00 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570633	1	11/04/20 21:56	11/04/20 21:56	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1570289	1	11/04/20 10:20	11/04/20 16:34	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1570807	1	11/03/20 18:05	11/04/20 15:51	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1570809	1	11/03/20 18:05	11/04/20 16:23	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570537	1	11/03/20 22:23	11/04/20 08:48	JDG	Mt. Juliet, TN

BH-1 (2'-3') L1280672-02 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 11:10 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570633	1	11/04/20 21:56	11/04/20 21:56	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1570289	1	11/04/20 10:20	11/04/20 16:43	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1570807	1	11/03/20 18:05	11/04/20 16:12	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1570809	1	11/03/20 18:05	11/04/20 16:42	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570537	1	11/03/20 22:23	11/04/20 08:35	JDG	Mt. Juliet, TN

BH-1 (4'-5') L1280672-03 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 11:20 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570633	1	11/04/20 21:56	11/04/20 21:56	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1570289	1	11/04/20 10:20	11/04/20 16:53	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1570807	1	11/03/20 18:05	11/04/20 16:33	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1570809	1	11/03/20 18:05	11/04/20 17:01	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570537	1	11/03/20 22:23	11/04/20 08:22	JDG	Mt. Juliet, TN

BH-1 (6'-7') L1280672-04 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 11:30 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570633	1	11/04/20 21:56	11/04/20 21:56	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1570289	1	11/04/20 10:20	11/04/20 17:02	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1570807	1	11/03/20 18:05	11/04/20 16:53	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573109	1	11/03/20 18:05	11/09/20 01:36	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570537	1	11/03/20 22:23	11/04/20 08:10	JDG	Mt. Juliet, TN

BH-1 (9'-10') L1280672-05 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 11:40 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570633	1	11/04/20 21:56	11/04/20 21:56	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1570289	1	11/04/20 10:20	11/04/20 17:12	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1570807	1	11/03/20 18:05	11/04/20 17:14	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573109	1	11/03/20 18:05	11/09/20 01:56	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570537	1	11/03/20 22:23	11/04/20 09:01	JDG	Mt. Juliet, TN

BH-1 (14'-15') L1280672-06 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 12:00 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570633	1	11/04/20 21:56	11/04/20 21:56	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1570289	1	11/04/20 10:20	11/04/20 17:21	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1570807	1.01	11/03/20 18:05	11/04/20 17:35	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573109	1	11/03/20 18:05	11/09/20 02:15	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570537	1	11/03/20 22:23	11/04/20 07:44	JDG	Mt. Juliet, TN

BH-1 (19'-20') L1280672-07 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 12:30 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570633	1	11/04/20 21:56	11/04/20 21:56	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1570289	1	11/04/20 10:20	11/04/20 17:31	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1570807	1	11/03/20 18:05	11/04/20 17:56	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573109	1	11/03/20 18:05	11/09/20 02:34	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570537	1	11/03/20 22:23	11/04/20 07:57	JDG	Mt. Juliet, TN

BH-2 (0'-1') L1280672-08 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 13:00 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570633	1	11/04/20 21:56	11/04/20 21:56	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1570289	1	11/04/20 10:20	11/04/20 17:40	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1570807	1	11/03/20 18:05	11/04/20 18:17	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573109	1	11/03/20 18:05	11/09/20 08:24	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570695	5	11/04/20 16:33	11/06/20 10:10	JDG	Mt. Juliet, TN

BH-2 (2'-3') L1280672-09 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 13:10 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570634	1	11/04/20 21:24	11/04/20 21:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1570289	1	11/04/20 10:20	11/04/20 18:09	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1570807	1	11/03/20 18:05	11/04/20 18:38	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573109	1	11/03/20 18:05	11/09/20 08:43	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570695	1	11/04/20 16:33	11/06/20 08:53	JDG	Mt. Juliet, TN

BH-2 (4'-5') L1280672-10 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 13:20 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570634	1	11/04/20 21:24	11/04/20 21:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1570289	1	11/04/20 10:20	11/04/20 18:18	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1570807	1	11/03/20 18:05	11/04/20 18:58	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573485	1	11/03/20 18:05	11/09/20 13:27	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570695	1	11/04/20 16:33	11/05/20 11:32	TJD	Mt. Juliet, TN

BH-2 (6'-7') L1280672-11 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 13:30 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570634	1	11/04/20 21:24	11/04/20 21:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1570289	1	11/04/20 10:20	11/04/20 18:37	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1570807	1	11/03/20 18:05	11/04/20 19:19	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573485	1	11/03/20 18:05	11/09/20 13:46	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570695	1	11/04/20 16:33	11/05/20 11:45	TJD	Mt. Juliet, TN

BH-2 (9'-10') L1280672-12 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 13:40 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570634	1	11/04/20 21:24	11/04/20 21:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1570289	1	11/04/20 10:20	11/04/20 18:47	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1570807	1	11/03/20 18:05	11/04/20 19:40	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573485	1	11/03/20 18:05	11/09/20 14:05	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570696	1	11/04/20 16:28	11/05/20 07:02	JN	Mt. Juliet, TN

BH-2 (14'-15') L1280672-13 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 14:00 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570634	1	11/04/20 21:24	11/04/20 21:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1570289	1	11/04/20 10:20	11/04/20 18:56	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1571125	1.01	11/03/20 18:05	11/05/20 05:12	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573485	1	11/03/20 18:05	11/09/20 14:24	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570696	1	11/04/20 16:28	11/05/20 07:15	JN	Mt. Juliet, TN

BH-2 (19'-20') L1280672-14 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 14:30 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570634	1	11/04/20 21:24	11/04/20 21:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1571831	1	11/05/20 15:56	11/05/20 19:09	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1571125	1	11/03/20 18:05	11/05/20 05:32	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573226	1	11/03/20 18:05	11/08/20 23:05	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570696	1	11/04/20 16:28	11/05/20 07:28	JN	Mt. Juliet, TN

BH-3 (0'-1') L1280672-15 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 15:00 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570634	1	11/04/20 21:24	11/04/20 21:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1571831	1	11/05/20 15:56	11/05/20 19:37	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1571125	1	11/03/20 18:05	11/05/20 05:53	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573226	1	11/03/20 18:05	11/08/20 23:24	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570696	1	11/04/20 16:28	11/05/20 07:47	JN	Mt. Juliet, TN

BH-3 (2'-3') L1280672-16 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 15:10 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570634	1	11/04/20 21:24	11/04/20 21:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1571831	1	11/05/20 15:56	11/05/20 19:56	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1571125	1	11/03/20 18:05	11/05/20 06:17	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573226	1	11/03/20 18:05	11/08/20 23:43	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570696	1	11/04/20 16:28	11/05/20 08:00	JN	Mt. Juliet, TN

BH-3 (4'-5') L1280672-17 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 15:20 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570634	1	11/04/20 21:24	11/04/20 21:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1571831	1	11/05/20 15:56	11/05/20 20:06	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1571125	1	11/03/20 18:05	11/05/20 06:38	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573226	1	11/03/20 18:05	11/09/20 00:02	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570696	1	11/04/20 16:28	11/05/20 08:40	JN	Mt. Juliet, TN

BH-3 (6'-7') L1280672-18 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 15:30 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570634	1	11/04/20 21:24	11/04/20 21:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1571831	1	11/05/20 15:56	11/05/20 20:16	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1571125	1	11/03/20 18:05	11/05/20 06:59	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573226	1	11/03/20 18:05	11/09/20 00:21	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570696	1	11/04/20 16:28	11/05/20 08:53	JN	Mt. Juliet, TN

BH-3 (9'-10') L1280672-19 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 15:40 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570636	1	11/04/20 15:54	11/04/20 16:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1571831	1	11/05/20 15:56	11/05/20 20:44	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1571125	1	11/03/20 18:05	11/05/20 07:19	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573226	1	11/03/20 18:05	11/09/20 00:40	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570696	1	11/04/20 16:28	11/05/20 09:06	JN	Mt. Juliet, TN

BH-3 (14'-15') L1280672-20 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 16:00 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570636	1	11/04/20 15:54	11/04/20 16:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1571831	1	11/05/20 15:56	11/05/20 20:54	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1571125	1	11/03/20 20:42	11/05/20 07:40	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573226	1	11/03/20 20:42	11/09/20 00:59	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570696	1	11/04/20 16:28	11/05/20 09:20	JN	Mt. Juliet, TN

BH-3 (19'-20') L1280672-21 Solid

Collected by: Joe Tyler | Collected date/time: 10/29/20 16:30 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570636	1	11/04/20 15:54	11/04/20 16:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1571831	1	11/05/20 15:56	11/05/20 21:03	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1571125	1	11/03/20 20:42	11/05/20 08:01	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573226	1	11/03/20 20:42	11/09/20 01:18	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570696	1	11/04/20 16:28	11/05/20 09:33	JN	Mt. Juliet, TN

BH-4 (0'-1') L1280672-22 Solid

Collected by: Joe Tyler | Collected date/time: 10/30/20 10:00 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570636	1	11/04/20 15:54	11/04/20 16:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1571831	1	11/05/20 15:56	11/05/20 21:13	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1571581	1	11/03/20 20:42	11/05/20 19:35	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573226	1	11/03/20 20:42	11/09/20 01:37	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570696	1	11/04/20 16:28	11/05/20 09:46	JN	Mt. Juliet, TN

BH-4 (3'-4') L1280672-23 Solid

Collected by: Joe Tyler | Collected date/time: 10/30/20 10:10 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570636	1	11/04/20 15:54	11/04/20 16:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1571831	1	11/05/20 15:56	11/05/20 21:22	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1571814	1.01	11/03/20 20:42	11/05/20 23:42	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573226	1	11/03/20 20:42	11/09/20 01:56	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1570696	1	11/04/20 16:28	11/05/20 10:00	JN	Mt. Juliet, TN

BH-5 (0'-1') L1280672-24 Solid

Collected by: Joe Tyler | Collected date/time: 10/30/20 10:30 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570636	1	11/04/20 15:54	11/04/20 16:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1571831	1	11/05/20 15:56	11/05/20 21:32	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1571814	1.01	11/03/20 20:42	11/06/20 00:05	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573226	1	11/03/20 20:42	11/09/20 02:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1573123	1	11/08/20 17:59	11/09/20 11:00	TJD	Mt. Juliet, TN

BH-5 (3'-4') L1280672-25 Solid

Collected by: Joe Tyler | Collected date/time: 10/30/20 10:40 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570636	1	11/04/20 15:54	11/04/20 16:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1571831	1	11/05/20 15:56	11/05/20 21:41	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1571814	1	11/03/20 20:42	11/06/20 00:27	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573226	1	11/03/20 20:42	11/09/20 02:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1573123	1	11/08/20 17:59	11/09/20 12:32	TJD	Mt. Juliet, TN

BH-6 (0'-1') L1280672-26 Solid

Collected by: Joe Tyler | Collected date/time: 10/30/20 11:00 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570636	1	11/04/20 15:54	11/04/20 16:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1571831	1	11/05/20 15:56	11/05/20 21:51	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1571814	1	11/03/20 20:42	11/06/20 00:50	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573226	1	11/03/20 20:42	11/09/20 02:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1573123	1	11/08/20 17:59	11/09/20 11:15	TJD	Mt. Juliet, TN

BH-6 (3'-4') L1280672-27 Solid

Collected by: Joe Tyler | Collected date/time: 10/30/20 11:10 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570636	1	11/04/20 15:54	11/04/20 16:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1571831	1	11/05/20 15:56	11/05/20 22:00	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1571814	1	11/03/20 20:42	11/06/20 01:12	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573226	1	11/03/20 20:42	11/09/20 03:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1573123	1	11/08/20 17:59	11/09/20 11:30	TJD	Mt. Juliet, TN

BH-7 (0'-1') L1280672-28 Solid

Collected by: Joe Tyler | Collected date/time: 10/30/20 11:30 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570636	1	11/04/20 15:54	11/04/20 16:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1571831	1	11/05/20 15:56	11/05/20 22:10	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1571814	1	11/03/20 20:42	11/06/20 01:34	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573226	1	11/03/20 20:42	11/09/20 03:31	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1573123	1	11/08/20 17:59	11/09/20 12:02	TJD	Mt. Juliet, TN

BH-7 (3'-4') L1280672-29 Solid

Collected by: Joe Tyler | Collected date/time: 10/30/20 11:40 | Received date/time: 11/03/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1570638	1	11/04/20 15:46	11/04/20 15:53	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1571831	1	11/05/20 15:56	11/05/20 22:38	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1571814	1	11/03/20 20:42	11/06/20 01:56	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1573226	1	11/03/20 20:42	11/09/20 03:50	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1573123	1	11/08/20 17:59	11/09/20 12:17	TJD	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.8		1	11/04/2020 21:56	WG1570633

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.70	21.1	1	11/04/2020 16:34	WG1570289

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0229	0.105	1	11/04/2020 15:51	WG1570807
(S) a,a,a-Trifluorotoluene(FID)	*108*			*77.0-120*		*11/04/2020 15:51*	WG1570807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000518	0.00111	1	11/04/2020 16:23	WG1570809
Toluene	U		0.00144	0.00555	1	11/04/2020 16:23	WG1570809
Ethylbenzene	U		0.000818	0.00277	1	11/04/2020 16:23	WG1570809
Total Xylenes	0.00152	J	0.000976	0.00721	1	11/04/2020 16:23	WG1570809
(S) Toluene-d8	*102*			*75.0-131*		*11/04/2020 16:23*	WG1570809
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*11/04/2020 16:23*	WG1570809
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/04/2020 16:23*	WG1570809

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	17.2		1.70	4.22	1	11/04/2020 08:48	WG1570537
C28-C40 Oil Range	44.0		0.289	4.22	1	11/04/2020 08:48	WG1570537
(S) o-Terphenyl	*33.0*			*18.0-148*		*11/04/2020 08:48*	WG1570537

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.2		1	11/04/2020 21:56	WG1570633

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.76	21.2	1	11/04/2020 16:43	WG1570289

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0230	0.106	1	11/04/2020 16:12	WG1570807
(S) a,a,a-Trifluorotoluene(FID)	*104*			*77.0-120*		*11/04/2020 16:12*	WG1570807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000524	0.00112	1	11/04/2020 16:42	WG1570809
Toluene	U		0.00146	0.00561	1	11/04/2020 16:42	WG1570809
Ethylbenzene	U		0.000828	0.00281	1	11/04/2020 16:42	WG1570809
Total Xylenes	0.00152	J	0.000988	0.00730	1	11/04/2020 16:42	WG1570809
(S) Toluene-d8	*106*			*75.0-131*		*11/04/2020 16:42*	WG1570809
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*11/04/2020 16:42*	WG1570809
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*11/04/2020 16:42*	WG1570809

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	11.1		1.71	4.25	1	11/04/2020 08:35	WG1570537
C28-C40 Oil Range	25.9		0.291	4.25	1	11/04/2020 08:35	WG1570537
(S) o-Terphenyl	*36.8*			*18.0-148*		*11/04/2020 08:35*	WG1570537

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.4		1	11/04/2020 21:56	WG1570633

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.54	20.7	1	11/04/2020 16:53	WG1570289

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0516	B J	0.0225	0.104	1	11/04/2020 16:33	WG1570807
(S) a,a,a-Trifluorotoluene(FID)	*105*			*77.0-120*		*11/04/2020 16:33*	WG1570807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000502	0.00107	1	11/04/2020 17:01	WG1570809
Toluene	U		0.00140	0.00537	1	11/04/2020 17:01	WG1570809
Ethylbenzene	U		0.000792	0.00268	1	11/04/2020 17:01	WG1570809
Total Xylenes	0.00145	J	0.000945	0.00698	1	11/04/2020 17:01	WG1570809
(S) Toluene-d8	*106*			*75.0-131*		*11/04/2020 17:01*	WG1570809
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*11/04/2020 17:01*	WG1570809
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*11/04/2020 17:01*	WG1570809

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.12	J	1.67	4.15	1	11/04/2020 08:22	WG1570537
C28-C40 Oil Range	3.64	J	0.284	4.15	1	11/04/2020 08:22	WG1570537
(S) o-Terphenyl	*56.9*			*18.0-148*		*11/04/2020 08:22*	WG1570537

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.0		1	11/04/2020 21:56	WG1570633

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	61.1		9.58	20.8	1	11/04/2020 17:02	WG1570289

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0360	B J	0.0226	0.104	1	11/04/2020 16:53	WG1570807
(S) a,a,a-Trifluorotoluene(FID)	*106*			*77.0-120*		*11/04/2020 16:53*	WG1570807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000505	0.00108	1	11/09/2020 01:36	WG1573109
Toluene	U		0.00141	0.00541	1	11/09/2020 01:36	WG1573109
Ethylbenzene	U		0.000798	0.00271	1	11/09/2020 01:36	WG1573109
Total Xylenes	U		0.000952	0.00704	1	11/09/2020 01:36	WG1573109
(S) Toluene-d8	*105*			*75.0-131*		*11/09/2020 01:36*	WG1573109
(S) 4-Bromofluorobenzene	*95.1*			*67.0-138*		*11/09/2020 01:36*	WG1573109
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*		*11/09/2020 01:36*	WG1573109

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.16	1	11/04/2020 08:10	WG1570537
C28-C40 Oil Range	1.05	J	0.285	4.16	1	11/04/2020 08:10	WG1570537
(S) o-Terphenyl	*50.5*			*18.0-148*		*11/04/2020 08:10*	WG1570537

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.3		1	11/04/2020 21:56	WG1570633

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	24.1		9.26	20.1	1	11/04/2020 17:12	WG1570289

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0687	B J	0.0218	0.101	1	11/04/2020 17:14	WG1570807
(S) a,a,a-Trifluorotoluene(FID)	*106*			*77.0-120*		*11/04/2020 17:14*	WG1570807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000473	0.00101	1	11/09/2020 01:56	WG1573109
Toluene	U		0.00132	0.00507	1	11/09/2020 01:56	WG1573109
Ethylbenzene	U		0.000747	0.00253	1	11/09/2020 01:56	WG1573109
Total Xylenes	U		0.000892	0.00659	1	11/09/2020 01:56	WG1573109
(S) Toluene-d8	*106*			*75.0-131*		*11/09/2020 01:56*	WG1573109
(S) 4-Bromofluorobenzene	*95.6*			*67.0-138*		*11/09/2020 01:56*	WG1573109
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/09/2020 01:56*	WG1573109

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	31.5		1.62	4.03	1	11/04/2020 09:01	WG1570537
C28-C40 Oil Range	39.9		0.276	4.03	1	11/04/2020 09:01	WG1570537
(S) o-Terphenyl	*41.1*			*18.0-148*		*11/04/2020 09:01*	WG1570537

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.3		1	11/04/2020 21:56	WG1570633

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.27	20.1	1	11/04/2020 17:21	WG1570289

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0221	0.102	1.01	11/04/2020 17:35	WG1570807
(S) a,a,a-Trifluorotoluene(FID)	*105*			*77.0-120*		*11/04/2020 17:35*	WG1570807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000474	0.00101	1	11/09/2020 02:15	WG1573109
Toluene	U		0.00132	0.00507	1	11/09/2020 02:15	WG1573109
Ethylbenzene	U		0.000748	0.00254	1	11/09/2020 02:15	WG1573109
Total Xylenes	U		0.000893	0.00660	1	11/09/2020 02:15	WG1573109
(S) Toluene-d8	*105*			*75.0-131*		*11/09/2020 02:15*	WG1573109
(S) 4-Bromofluorobenzene	*94.8*			*67.0-138*		*11/09/2020 02:15*	WG1573109
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*11/09/2020 02:15*	WG1573109

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.62	4.03	1	11/04/2020 07:44	WG1570537
C28-C40 Oil Range	0.810	J	0.276	4.03	1	11/04/2020 07:44	WG1570537
(S) o-Terphenyl	*61.5*			*18.0-148*		*11/04/2020 07:44*	WG1570537

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	11/04/2020 21:56	WG1570633

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	46.9		9.63	20.9	1	11/04/2020 17:31	WG1570289

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0227	0.105	1	11/04/2020 17:56	WG1570807
(S) a,a,a-Trifluorotoluene(FID)	*107*			*77.0-120*		*11/04/2020 17:56*	WG1570807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000510	0.00109	1	11/09/2020 02:34	WG1573109
Toluene	U		0.00142	0.00546	1	11/09/2020 02:34	WG1573109
Ethylbenzene	U		0.000805	0.00273	1	11/09/2020 02:34	WG1573109
Total Xylenes	U		0.000961	0.00710	1	11/09/2020 02:34	WG1573109
(S) Toluene-d8	*106*			*75.0-131*		*11/09/2020 02:34*	WG1573109
(S) 4-Bromofluorobenzene	*96.4*			*67.0-138*		*11/09/2020 02:34*	WG1573109
(S) 1,2-Dichloroethane-d4	*99.2*			*70.0-130*		*11/09/2020 02:34*	WG1573109

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.19	1	11/04/2020 07:57	WG1570537
C28-C40 Oil Range	0.354	J	0.287	4.19	1	11/04/2020 07:57	WG1570537
(S) o-Terphenyl	*48.3*			*18.0-148*		*11/04/2020 07:57*	WG1570537

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.6		1	11/04/2020 21:56	WG1570633

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.83	21.4	1	11/04/2020 17:40	WG1570289

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0480	B J	0.0232	0.107	1	11/04/2020 18:17	WG1570807
(S) a,a,a-Trifluorotoluene(FID)	*106*			*77.0-120*		*11/04/2020 18:17*	WG1570807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000530	0.00114	1	11/09/2020 08:24	WG1573109
Toluene	U		0.00148	0.00568	1	11/09/2020 08:24	WG1573109
Ethylbenzene	U		0.000837	0.00284	1	11/09/2020 08:24	WG1573109
Total Xylenes	0.00117	J	0.00100	0.00738	1	11/09/2020 08:24	WG1573109
(S) Toluene-d8	*105*			*75.0-131*		*11/09/2020 08:24*	WG1573109
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*11/09/2020 08:24*	WG1573109
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*11/09/2020 08:24*	WG1573109

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	404		8.60	21.4	5	11/06/2020 10:10	WG1570695
C28-C40 Oil Range	126		1.46	21.4	5	11/06/2020 10:10	WG1570695
(S) o-Terphenyl	*35.6*			*18.0-148*		*11/06/2020 10:10*	WG1570695

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.0		1	11/04/2020 21:48	WG1570634

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.89	21.5	1	11/04/2020 18:09	WG1570289

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0233	0.108	1	11/04/2020 18:38	WG1570807
(S) a,a,a-Trifluorotoluene(FID)	*106*			*77.0-120*		*11/04/2020 18:38*	WG1570807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000537	0.00115	1	11/09/2020 08:43	WG1573109
Toluene	U		0.00150	0.00575	1	11/09/2020 08:43	WG1573109
Ethylbenzene	U		0.000848	0.00288	1	11/09/2020 08:43	WG1573109
Total Xylenes	U		0.00101	0.00748	1	11/09/2020 08:43	WG1573109
(S) Toluene-d8	*106*			*75.0-131*		*11/09/2020 08:43*	WG1573109
(S) 4-Bromofluorobenzene	*97.7*			*67.0-138*		*11/09/2020 08:43*	WG1573109
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/09/2020 08:43*	WG1573109

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	56.2		1.73	4.30	1	11/06/2020 08:53	WG1570695
C28-C40 Oil Range	120		0.295	4.30	1	11/06/2020 08:53	WG1570695
(S) o-Terphenyl	*40.3*			*18.0-148*		*11/06/2020 08:53*	WG1570695

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.4		1	11/04/2020 21:48	WG1570634

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	16.2	J	9.64	21.0	1	11/04/2020 18:18	WG1570289

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0346	B J	0.0227	0.105	1	11/04/2020 18:58	WG1570807
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-120*		*11/04/2020 18:58*	WG1570807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	0.000657	J	0.000512	0.00110	1	11/09/2020 13:27	WG1573485
Toluene	U		0.00142	0.00548	1	11/09/2020 13:27	WG1573485
Ethylbenzene	U		0.000808	0.00274	1	11/09/2020 13:27	WG1573485
Total Xylenes	0.000986	J	0.000964	0.00712	1	11/09/2020 13:27	WG1573485
(S) Toluene-d8	*109*			*75.0-131*		*11/09/2020 13:27*	WG1573485
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*11/09/2020 13:27*	WG1573485
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*11/09/2020 13:27*	WG1573485

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.48		1.69	4.19	1	11/05/2020 11:32	WG1570695
C28-C40 Oil Range	4.11	J	0.287	4.19	1	11/05/2020 11:32	WG1570695
(S) o-Terphenyl	*47.4*			*18.0-148*		*11/05/2020 11:32*	WG1570695

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.7		1	11/04/2020 21:48	WG1570634

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	40.1		10.0	21.8	1	11/04/2020 18:37	WG1570289

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0237	0.109	1	11/04/2020 19:19	WG1570807
(S) a,a,a-Trifluorotoluene(FID)	*106*			*77.0-120*		*11/04/2020 19:19*	WG1570807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000552	0.00118	1	11/09/2020 13:46	WG1573485
Toluene	U		0.00154	0.00591	1	11/09/2020 13:46	WG1573485
Ethylbenzene	U		0.000871	0.00296	1	11/09/2020 13:46	WG1573485
Total Xylenes	U		0.00104	0.00768	1	11/09/2020 13:46	WG1573485
(S) Toluene-d8	*107*			*75.0-131*		*11/09/2020 13:46*	WG1573485
(S) 4-Bromofluorobenzene	*98.6*			*67.0-138*		*11/09/2020 13:46*	WG1573485
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*11/09/2020 13:46*	WG1573485

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.45	J	1.76	4.36	1	11/05/2020 11:45	WG1570695
C28-C40 Oil Range	1.69	J	0.299	4.36	1	11/05/2020 11:45	WG1570695
(S) o-Terphenyl	*61.3*			*18.0-148*		*11/05/2020 11:45*	WG1570695

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.4		1	11/04/2020 21:48	WG1570634

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	408		9.85	21.4	1	11/04/2020 18:47	WG1570289

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0232	0.107	1	11/04/2020 19:40	WG1570807
(S) a,a,a-Trifluorotoluene(FID)	*107*			*77.0-120*		*11/04/2020 19:40*	WG1570807

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000533	0.00114	1	11/09/2020 14:05	WG1573485
Toluene	U		0.00148	0.00571	1	11/09/2020 14:05	WG1573485
Ethylbenzene	U		0.000842	0.00286	1	11/09/2020 14:05	WG1573485
Total Xylenes	U		0.00101	0.00742	1	11/09/2020 14:05	WG1573485
(S) Toluene-d8	*105*			*75.0-131*		*11/09/2020 14:05*	WG1573485
(S) 4-Bromofluorobenzene	*96.8*			*67.0-138*		*11/09/2020 14:05*	WG1573485
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*11/09/2020 14:05*	WG1573485

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.73	J	1.72	4.28	1	11/05/2020 07:02	WG1570696
C28-C40 Oil Range	U		0.293	4.28	1	11/05/2020 07:02	WG1570696
(S) o-Terphenyl	*37.8*			*18.0-148*		*11/05/2020 07:02*	WG1570696

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.1		1	11/04/2020 21:48	WG1570634

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	306		9.77	21.2	1	11/04/2020 18:56	WG1570289

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0247	B J	0.0233	0.107	1.01	11/05/2020 05:12	WG1571125
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*77.0-120*		*11/05/2020 05:12*	WG1571125

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000525	0.00112	1	11/09/2020 14:24	WG1573485
Toluene	U		0.00146	0.00562	1	11/09/2020 14:24	WG1573485
Ethylbenzene	U		0.000829	0.00281	1	11/09/2020 14:24	WG1573485
Total Xylenes	U		0.000989	0.00731	1	11/09/2020 14:24	WG1573485
(S) Toluene-d8	*105*			*75.0-131*		*11/09/2020 14:24*	WG1573485
(S) 4-Bromofluorobenzene	*96.9*			*67.0-138*		*11/09/2020 14:24*	WG1573485
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/09/2020 14:24*	WG1573485

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.71	4.25	1	11/05/2020 07:15	WG1570696
C28-C40 Oil Range	0.390	J	0.291	4.25	1	11/05/2020 07:15	WG1570696
(S) o-Terphenyl	*48.6*			*18.0-148*		*11/05/2020 07:15*	WG1570696

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.9		1	11/04/2020 21:48	WG1570634

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	296		9.70	21.1	1	11/05/2020 19:09	WG1571831

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0283	B J	0.0229	0.105	1	11/05/2020 05:32	WG1571125
(S) a,a,a-Trifluorotoluene(FID)	*92.5*			*77.0-120*		*11/05/2020 05:32*	WG1571125

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	0.000776	J	0.000518	0.00111	1	11/08/2020 23:05	WG1573226
Toluene	0.00257	J	0.00144	0.00554	1	11/08/2020 23:05	WG1573226
Ethylbenzene	0.000998	J	0.000817	0.00277	1	11/08/2020 23:05	WG1573226
Total Xylenes	0.00561	J	0.000975	0.00720	1	11/08/2020 23:05	WG1573226
(S) Toluene-d8	*111*			*75.0-131*		*11/08/2020 23:05*	WG1573226
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*11/08/2020 23:05*	WG1573226
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/08/2020 23:05*	WG1573226

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.70	4.22	1	11/05/2020 07:28	WG1570696
C28-C40 Oil Range	0.963	J	0.289	4.22	1	11/05/2020 07:28	WG1570696
(S) o-Terphenyl	*56.7*			*18.0-148*		*11/05/2020 07:28*	WG1570696

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.5		1	11/04/2020 21:48	WG1570634

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	9.85	J	9.73	21.2	1	11/05/2020 19:37	WG1571831

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0267	B J	0.0230	0.106	1	11/05/2020 05:53	WG1571125
(S) a,a,a-Trifluorotoluene(FID)	*93.0*			*77.0-120*		*11/05/2020 05:53*	WG1571125

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000521	0.00112	1	11/08/2020 23:24	WG1573226
Toluene	U		0.00145	0.00558	1	11/08/2020 23:24	WG1573226
Ethylbenzene	U		0.000822	0.00279	1	11/08/2020 23:24	WG1573226
Total Xylenes	U		0.000982	0.00725	1	11/08/2020 23:24	WG1573226
(S) Toluene-d8	*116*			*75.0-131*		*11/08/2020 23:24*	WG1573226
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*11/08/2020 23:24*	WG1573226
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*11/08/2020 23:24*	WG1573226

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.70	4.23	1	11/05/2020 07:47	WG1570696
C28-C40 Oil Range	9.19		0.290	4.23	1	11/05/2020 07:47	WG1570696
(S) o-Terphenyl	*48.9*			*18.0-148*		*11/05/2020 07:47*	WG1570696

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.0		1	11/04/2020 21:48	WG1570634

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.69	21.1	1	11/05/2020 19:56	WG1571831

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0270	B J	0.0228	0.105	1	11/05/2020 06:17	WG1571125
(S) a,a,a-Trifluorotoluene(FID)	*93.3*			*77.0-120*		*11/05/2020 06:17*	WG1571125

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000516	0.00111	1	11/08/2020 23:43	WG1573226
Toluene	U		0.00144	0.00553	1	11/08/2020 23:43	WG1573226
Ethylbenzene	U		0.000815	0.00276	1	11/08/2020 23:43	WG1573226
Total Xylenes	U		0.000973	0.00719	1	11/08/2020 23:43	WG1573226
(S) Toluene-d8	*106*			*75.0-131*		*11/08/2020 23:43*	WG1573226
(S) 4-Bromofluorobenzene	*92.0*			*67.0-138*		*11/08/2020 23:43*	WG1573226
(S) 1,2-Dichloroethane-d4	*99.2*			*70.0-130*		*11/08/2020 23:43*	WG1573226

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.70	4.21	1	11/05/2020 08:00	WG1570696
C28-C40 Oil Range	6.61		0.289	4.21	1	11/05/2020 08:00	WG1570696
(S) o-Terphenyl	*63.1*			*18.0-148*		*11/05/2020 08:00*	WG1570696

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.4		1	11/04/2020 21:48	WG1570634

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.85	21.4	1	11/05/2020 20:06	WG1571831

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0259	B J	0.0232	0.107	1	11/05/2020 06:38	WG1571125
(S) a,a,a-Trifluorotoluene(FID)	*94.1*			*77.0-120*		*11/05/2020 06:38*	WG1571125

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000533	0.00114	1	11/09/2020 00:02	WG1573226
Toluene	U		0.00148	0.00570	1	11/09/2020 00:02	WG1573226
Ethylbenzene	U		0.000841	0.00285	1	11/09/2020 00:02	WG1573226
Total Xylenes	0.00103	J	0.00100	0.00742	1	11/09/2020 00:02	WG1573226
(S) Toluene-d8	*117*			*75.0-131*		*11/09/2020 00:02*	WG1573226
(S) 4-Bromofluorobenzene	*93.9*			*67.0-138*		*11/09/2020 00:02*	WG1573226
(S) 1,2-Dichloroethane-d4	*95.0*			*70.0-130*		*11/09/2020 00:02*	WG1573226

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.72	4.28	1	11/05/2020 08:40	WG1570696
C28-C40 Oil Range	1.08	J	0.293	4.28	1	11/05/2020 08:40	WG1570696
(S) o-Terphenyl	*52.5*			*18.0-148*		*11/05/2020 08:40*	WG1570696

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.7		1	11/04/2020 21:48	WG1570634

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		10.0	21.8	1	11/05/2020 20:16	WG1571831

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0237	0.109	1	11/05/2020 06:59	WG1571125
(S) a,a,a-Trifluorotoluene(FID)	*94.2*			*77.0-120*		*11/05/2020 06:59*	WG1571125

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000551	0.00118	1	11/09/2020 00:21	WG1573226
Toluene	U		0.00153	0.00590	1	11/09/2020 00:21	WG1573226
Ethylbenzene	U		0.000870	0.00295	1	11/09/2020 00:21	WG1573226
Total Xylenes	U		0.00104	0.00767	1	11/09/2020 00:21	WG1573226
(S) Toluene-d8	*112*			*75.0-131*		*11/09/2020 00:21*	WG1573226
(S) 4-Bromofluorobenzene	*94.6*			*67.0-138*		*11/09/2020 00:21*	WG1573226
(S) 1,2-Dichloroethane-d4	*97.9*			*70.0-130*		*11/09/2020 00:21*	WG1573226

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.76	4.36	1	11/05/2020 08:53	WG1570696
C28-C40 Oil Range	U		0.299	4.36	1	11/05/2020 08:53	WG1570696
(S) o-Terphenyl	*63.4*			*18.0-148*		*11/05/2020 08:53*	WG1570696

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.9		1	11/04/2020 16:01	WG1570636

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	136		10.1	22.0	1	11/05/2020 20:44	WG1571831

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0239	0.110	1	11/05/2020 07:19	WG1571125
(S) a,a,a-Trifluorotoluene(FID)	*93.0*			*77.0-120*		*11/05/2020 07:19*	WG1571125

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000560	0.00120	1	11/09/2020 00:40	WG1573226
Toluene	U		0.00156	0.00600	1	11/09/2020 00:40	WG1573226
Ethylbenzene	U		0.000884	0.00300	1	11/09/2020 00:40	WG1573226
Total Xylenes	0.00117	J	0.00106	0.00780	1	11/09/2020 00:40	WG1573226
(S) Toluene-d8	*113*			*75.0-131*		*11/09/2020 00:40*	WG1573226
(S) 4-Bromofluorobenzene	*96.6*			*67.0-138*		*11/09/2020 00:40*	WG1573226
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/09/2020 00:40*	WG1573226

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.77	4.40	1	11/05/2020 09:06	WG1570696
C28-C40 Oil Range	U		0.301	4.40	1	11/05/2020 09:06	WG1570696
(S) o-Terphenyl	*36.7*			*18.0-148*		*11/05/2020 09:06*	WG1570696

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.4		1	11/04/2020 16:01	WG1570636

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	284		9.85	21.4	1	11/05/2020 20:54	WG1571831

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0232	0.107	1	11/05/2020 07:40	WG1571125
(S) a,a,a-Trifluorotoluene(FID)	*93.3*			*77.0-120*		*11/05/2020 07:40*	WG1571125

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000534	0.00114	1	11/09/2020 00:59	WG1573226
Toluene	U		0.00149	0.00571	1	11/09/2020 00:59	WG1573226
Ethylbenzene	U		0.000842	0.00286	1	11/09/2020 00:59	WG1573226
Total Xylenes	0.00109	J	0.00101	0.00743	1	11/09/2020 00:59	WG1573226
(S) Toluene-d8	*111*			*75.0-131*		*11/09/2020 00:59*	WG1573226
(S) 4-Bromofluorobenzene	*94.9*			*67.0-138*		*11/09/2020 00:59*	WG1573226
(S) 1,2-Dichloroethane-d4	*97.9*			*70.0-130*		*11/09/2020 00:59*	WG1573226

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.72	4.28	1	11/05/2020 09:20	WG1570696
C28-C40 Oil Range	U		0.293	4.28	1	11/05/2020 09:20	WG1570696
(S) o-Terphenyl	*53.8*			*18.0-148*		*11/05/2020 09:20*	WG1570696

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.8		1	11/04/2020 16:01	WG1570636

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	151		9.92	21.6	1	11/05/2020 21:03	WG1571831

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0234	0.108	1	11/05/2020 08:01	WG1571125
(S) a,a,a-Trifluorotoluene(FID)	*93.5*			*77.0-120*		*11/05/2020 08:01*	WG1571125

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000540	0.00116	1	11/09/2020 01:18	WG1573226
Toluene	U		0.00150	0.00578	1	11/09/2020 01:18	WG1573226
Ethylbenzene	U		0.000852	0.00289	1	11/09/2020 01:18	WG1573226
Total Xylenes	U		0.00102	0.00752	1	11/09/2020 01:18	WG1573226
(S) Toluene-d8	*116*			*75.0-131*		*11/09/2020 01:18*	WG1573226
(S) 4-Bromofluorobenzene	*95.1*			*67.0-138*		*11/09/2020 01:18*	WG1573226
(S) 1,2-Dichloroethane-d4	*97.6*			*70.0-130*		*11/09/2020 01:18*	WG1573226

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.74	4.31	1	11/05/2020 09:33	WG1570696
C28-C40 Oil Range	U		0.295	4.31	1	11/05/2020 09:33	WG1570696
(S) o-Terphenyl	*59.5*			*18.0-148*		*11/05/2020 09:33*	WG1570696

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.9		1	11/04/2020 16:01	WG1570636

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.40	20.4	1	11/05/2020 21:13	WG1571831

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0222	0.102	1	11/05/2020 19:35	WG1571581
(S) a,a,a-Trifluorotoluene(FID)	*94.5*			*77.0-120*		*11/05/2020 19:35*	WG1571581

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000487	0.00104	1	11/09/2020 01:37	WG1573226
Toluene	U		0.00136	0.00521	1	11/09/2020 01:37	WG1573226
Ethylbenzene	U		0.000769	0.00261	1	11/09/2020 01:37	WG1573226
Total Xylenes	0.00104	J	0.000918	0.00678	1	11/09/2020 01:37	WG1573226
(S) Toluene-d8	*93.9*			*75.0-131*		*11/09/2020 01:37*	WG1573226
(S) 4-Bromofluorobenzene	*76.3*			*67.0-138*		*11/09/2020 01:37*	WG1573226
(S) 1,2-Dichloroethane-d4	*94.6*			*70.0-130*		*11/09/2020 01:37*	WG1573226

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	8.09		1.64	4.09	1	11/05/2020 09:46	WG1570696
C28-C40 Oil Range	13.6		0.280	4.09	1	11/05/2020 09:46	WG1570696
(S) o-Terphenyl	*74.8*			*18.0-148*		*11/05/2020 09:46*	WG1570696

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.3		1	11/04/2020 16:01	WG1570636

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.36	20.3	1	11/05/2020 21:22	WG1571831

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1.01	11/05/2020 23:42	WG1571814
(S) a,a,a-Trifluorotoluene(FID)	*98.7*			*77.0-120*		*11/05/2020 23:42*	WG1571814

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000483	0.00103	1	11/09/2020 01:56	WG1573226
Toluene	U		0.00134	0.00517	1	11/09/2020 01:56	WG1573226
Ethylbenzene	U		0.000762	0.00259	1	11/09/2020 01:56	WG1573226
Total Xylenes	0.00101	J	0.000910	0.00672	1	11/09/2020 01:56	WG1573226
(S) Toluene-d8	*111*			*75.0-131*		*11/09/2020 01:56*	WG1573226
(S) 4-Bromofluorobenzene	*94.6*			*67.0-138*		*11/09/2020 01:56*	WG1573226
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*11/09/2020 01:56*	WG1573226

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.64	4.07	1	11/05/2020 10:00	WG1570696
C28-C40 Oil Range	2.52	J	0.279	4.07	1	11/05/2020 10:00	WG1570696
(S) o-Terphenyl	*62.0*			*18.0-148*		*11/05/2020 10:00*	WG1570696

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.4		1	11/04/2020 16:01	WG1570636

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	30.2		9.54	20.7	1	11/05/2020 21:32	WG1571831

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0227	0.105	1.01	11/06/2020 00:05	WG1571814
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*77.0-120*		*11/06/2020 00:05*	WG1571814

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000502	0.00107	1	11/09/2020 02:15	WG1573226
Toluene	U		0.00140	0.00537	1	11/09/2020 02:15	WG1573226
Ethylbenzene	U		0.000792	0.00269	1	11/09/2020 02:15	WG1573226
Total Xylenes	U		0.000945	0.00698	1	11/09/2020 02:15	WG1573226
(S) Toluene-d8	*114*			*75.0-131*		*11/09/2020 02:15*	WG1573226
(S) 4-Bromofluorobenzene	*94.8*			*67.0-138*		*11/09/2020 02:15*	WG1573226
(S) 1,2-Dichloroethane-d4	*97.9*			*70.0-130*		*11/09/2020 02:15*	WG1573226

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.67	4.15	1	11/09/2020 11:00	WG1573123
C28-C40 Oil Range	7.47		0.284	4.15	1	11/09/2020 11:00	WG1573123
(S) o-Terphenyl	*58.5*			*18.0-148*		*11/09/2020 11:00*	WG1573123

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.8		1	11/04/2020 16:01	WG1570636

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	52.3		9.41	20.5	1	11/05/2020 21:41	WG1571831

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0222	0.102	1	11/06/2020 00:27	WG1571814
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*77.0-120*		*11/06/2020 00:27*	WG1571814

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000488	0.00105	1	11/09/2020 02:34	WG1573226
Toluene	U		0.00136	0.00523	1	11/09/2020 02:34	WG1573226
Ethylbenzene	U		0.000771	0.00261	1	11/09/2020 02:34	WG1573226
Total Xylenes	U		0.000920	0.00680	1	11/09/2020 02:34	WG1573226
(S) Toluene-d8	*113*			*75.0-131*		*11/09/2020 02:34*	WG1573226
(S) 4-Bromofluorobenzene	*120*			*67.0-138*		*11/09/2020 02:34*	WG1573226
(S) 1,2-Dichloroethane-d4	*95.9*			*70.0-130*		*11/09/2020 02:34*	WG1573226

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.22	J	1.65	4.09	1	11/09/2020 12:32	WG1573123
C28-C40 Oil Range	6.16		0.280	4.09	1	11/09/2020 12:32	WG1573123
(S) o-Terphenyl	*131*			*18.0-148*		*11/09/2020 12:32*	WG1573123

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.8		1	11/04/2020 16:01	WG1570636

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.51	20.7	1	11/05/2020 21:51	WG1571831

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	11/06/2020 00:50	WG1571814
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*77.0-120*		*11/06/2020 00:50*	WG1571814

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000498	0.00107	1	11/09/2020 02:53	WG1573226
Toluene	U		0.00139	0.00534	1	11/09/2020 02:53	WG1573226
Ethylbenzene	U		0.000786	0.00267	1	11/09/2020 02:53	WG1573226
Total Xylenes	0.00123	J	0.000939	0.00694	1	11/09/2020 02:53	WG1573226
(S) Toluene-d8	*114*			*75.0-131*		*11/09/2020 02:53*	WG1573226
(S) 4-Bromofluorobenzene	*124*			*67.0-138*		*11/09/2020 02:53*	WG1573226
(S) 1,2-Dichloroethane-d4	*96.0*			*70.0-130*		*11/09/2020 02:53*	WG1573226

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.66	4.13	1	11/09/2020 11:15	WG1573123
C28-C40 Oil Range	0.712	J	0.283	4.13	1	11/09/2020 11:15	WG1573123
(S) o-Terphenyl	*64.4*			*18.0-148*		*11/09/2020 11:15*	WG1573123

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.4		1	11/04/2020 16:01	WG1570636

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.35	20.3	1	11/05/2020 22:00	WG1571831

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0221	0.102	1	11/06/2020 01:12	WG1571814
(S) a,a,a-Trifluorotoluene(FID)	*99.7*			*77.0-120*		*11/06/2020 01:12*	WG1571814

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000483	0.00103	1	11/09/2020 03:12	WG1573226
Toluene	U		0.00134	0.00517	1	11/09/2020 03:12	WG1573226
Ethylbenzene	U		0.000762	0.00258	1	11/09/2020 03:12	WG1573226
Total Xylenes	U		0.000909	0.00672	1	11/09/2020 03:12	WG1573226
(S) Toluene-d8	*113*			*75.0-131*		*11/09/2020 03:12*	WG1573226
(S) 4-Bromofluorobenzene	*95.0*			*67.0-138*		*11/09/2020 03:12*	WG1573226
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*11/09/2020 03:12*	WG1573226

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.64	4.07	1	11/09/2020 11:30	WG1573123
C28-C40 Oil Range	0.337	J	0.279	4.07	1	11/09/2020 11:30	WG1573123
(S) o-Terphenyl	*72.7*			*18.0-148*		*11/09/2020 11:30*	WG1573123

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.6		1	11/04/2020 16:01	WG1570636

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.43	20.5	1	11/05/2020 22:10	WG1571831

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0222	0.102	1	11/06/2020 01:34	WG1571814
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*77.0-120*		*11/06/2020 01:34*	WG1571814

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000490	0.00105	1	11/09/2020 03:31	WG1573226
Toluene	U		0.00136	0.00524	1	11/09/2020 03:31	WG1573226
Ethylbenzene	U		0.000773	0.00262	1	11/09/2020 03:31	WG1573226
Total Xylenes	U		0.000923	0.00682	1	11/09/2020 03:31	WG1573226
(S) Toluene-d8	*113*			*75.0-131*		*11/09/2020 03:31*	WG1573226
(S) 4-Bromofluorobenzene	*94.3*			*67.0-138*		*11/09/2020 03:31*	WG1573226
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*11/09/2020 03:31*	WG1573226

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.84	J	1.65	4.10	1	11/09/2020 12:02	WG1573123
C28-C40 Oil Range	6.02		0.281	4.10	1	11/09/2020 12:02	WG1573123
(S) o-Terphenyl	*109*			*18.0-148*		*11/09/2020 12:02*	WG1573123

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.6		1	11/04/2020 15:53	WG1570638

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.52	20.7	1	11/05/2020 22:38	WG1571831

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0225	0.103	1	11/06/2020 01:56	WG1571814
(S) a,a,a-Trifluorotoluene(FID)	*99.1*			*77.0-120*		*11/06/2020 01:56*	WG1571814

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000499	0.00107	1	11/09/2020 03:50	WG1573226
Toluene	U		0.00139	0.00535	1	11/09/2020 03:50	WG1573226
Ethylbenzene	U		0.000788	0.00267	1	11/09/2020 03:50	WG1573226
Total Xylenes	0.00121	J	0.000941	0.00695	1	11/09/2020 03:50	WG1573226
(S) Toluene-d8	*110*			*75.0-131*		*11/09/2020 03:50*	WG1573226
(S) 4-Bromofluorobenzene	*94.9*			*67.0-138*		*11/09/2020 03:50*	WG1573226
(S) 1,2-Dichloroethane-d4	*99.6*			*70.0-130*		*11/09/2020 03:50*	WG1573226

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.67	4.14	1	11/09/2020 12:17	WG1573123
C28-C40 Oil Range	0.757	J	0.284	4.14	1	11/09/2020 12:17	WG1573123
(S) o-Terphenyl	*69.1*			*18.0-148*		*11/09/2020 12:17*	WG1573123

Method Blank (MB)

(MB) R3589768-1 11/04/20 21:56

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1280672-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1280672-02 11/04/20 21:56 • (DUP) R3589768-3 11/04/20 21:56

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	94.2	95.2	1	1.06		10

Laboratory Control Sample (LCS)

(LCS) R3589768-2 11/04/20 21:56

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3589763-1 11/04/20 21:48

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1280672-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1280672-12 11/04/20 21:48 • (DUP) R3589763-3 11/04/20 21:48

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	93.4	90.6	1	3.00		10

Laboratory Control Sample (LCS)

(LCS) R3589763-2 11/04/20 21:48

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3589743-1 11/04/20 16:01

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1280672-28 Original Sample (OS) • Duplicate (DUP)

(OS) L1280672-28 11/04/20 16:01 • (DUP) R3589743-3 11/04/20 16:01

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	97.6	97.6	1	0.0413		10

Laboratory Control Sample (LCS)

(LCS) R3589743-2 11/04/20 16:01

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3589740-1 11/04/20 15:53

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1280757-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1280757-11 11/04/20 15:53 • (DUP) R3589740-3 11/04/20 15:53

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	89.9	89.4	1	0.564		10

Laboratory Control Sample (LCS)

(LCS) R3589740-2 11/04/20 15:53

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3589512-1 11/04/20 14:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1280669-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1280669-21 11/04/20 14:39 • (DUP) R3589512-3 11/04/20 14:49

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	33.3	23.8	1	33.3	P1	20

L1280672-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1280672-10 11/04/20 18:18 • (DUP) R3589512-6 11/04/20 18:28

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	16.2	13.7	1	16.7	J	20

Laboratory Control Sample (LCS)

(LCS) R3589512-2 11/04/20 14:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	185	92.3	90.0-110	

L1280669-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1280669-22 11/04/20 14:58 • (MS) R3589512-4 11/04/20 15:08 • (MSD) R3589512-5 11/04/20 15:18

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	500	362	855	781	98.6	83.9	1	80.0-120			8.98	20

Method Blank (MB)

(MB) R3590060-1 11/05/20 18:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1280672-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1280672-15 11/05/20 19:37 • (DUP) R3590060-5 11/05/20 19:47

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	9.85	9.84	1	0.0862	J	20

L1280672-29 Original Sample (OS) • Duplicate (DUP)

(OS) L1280672-29 11/05/20 22:38 • (DUP) R3590060-6 11/05/20 22:48

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3590060-2 11/05/20 18:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	193	96.6	90.0-110	

L1280672-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1280672-14 11/05/20 19:09 • (MS) R3590060-3 11/05/20 19:18 • (MSD) R3590060-4 11/05/20 19:28

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	527	296	820	818	99.5	99.1	1	80.0-120			0.301	20

Method Blank (MB)

(MB) R3589597-2 11/04/20 12:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0506	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3589597-1 11/04/20 12:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.04	110	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	

L1280672-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1280672-05 11/04/20 17:14 • (MS) R3589597-3 11/04/20 20:01 • (MSD) R3589597-4 11/04/20 20:22

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.54	0.0687	5.35	4.49	95.5	79.8	1	10.0-151			17.6	28
(S) a,a,a-Trifluorotoluene(FID)					*100*	*98.9*		*77.0-120*				

Method Blank (MB)

(MB) R3590331-2 11/05/20 00:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0261	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3590331-1 11/04/20 23:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.06	110	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*111*	*77.0-120*	

L1280016-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1280016-01 11/05/20 01:00 • (MS) R3590331-3 11/05/20 08:21 • (MSD) R3590331-4 11/05/20 08:42

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	136	1.44	84.1	77.5	61.6	56.8	25	10.0-151			8.20	28
(S) a,a,a-Trifluorotoluene(FID)					*104*	*101*		*77.0-120*				

Method Blank (MB)

(MB) R3590630-2 11/05/20 11:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0294	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3590630-1 11/05/20 10:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.01	109	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*77.0-120*	

Method Blank (MB)

(MB) R3590669-3 11/05/20 15:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3590669-2 11/05/20 14:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.35	97.3	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*101*	*77.0-120*	

L1280407-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1280407-01 11/05/20 22:35 • (MS) R3590669-4 11/06/20 03:03 • (MSD) R3590669-5 11/06/20 03:25

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	184	U	257	290	96.7	109	33.5	10.0-151			12.1	28
(S) a,a,a-Trifluorotoluene(FID)					*101*	*103*		*77.0-120*				

Method Blank (MB)

(MB) R3589409-2 11/04/20 10:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*101*			*75.0-131*
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3589409-1 11/04/20 09:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.145	116	70.0-123	
Ethylbenzene	0.125	0.130	104	74.0-126	
Toluene	0.125	0.131	105	75.0-121	
Xylenes, Total	0.375	0.380	101	72.0-127	
(S) Toluene-d8			*99.8*	*75.0-131*	
(S) 4-Bromofluorobenzene			*98.1*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*112*	*70.0-130*	

Method Blank (MB)

(MB) R3591437-2 11/08/20 22:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*99.3*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*99.2*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3591437-1 11/08/20 21:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.117	93.6	70.0-123	
Ethylbenzene	0.125	0.132	106	74.0-126	
Toluene	0.125	0.116	92.8	75.0-121	
Xylenes, Total	0.375	0.385	103	72.0-127	
(S) Toluene-d8			*99.7*	*75.0-131*	
(S) 4-Bromofluorobenzene			*101*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*115*	*70.0-130*	

Method Blank (MB)

(MB) R3591509-3 11/08/20 18:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*112*			*75.0-131*
(S) 4-Bromofluorobenzene	*94.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*97.8*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3591509-1 11/08/20 17:15 • (LCSD) R3591509-2 11/08/20 17:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.127	0.127	102	102	70.0-123			0.000	20
Ethylbenzene	0.125	0.137	0.141	110	113	74.0-126			2.88	20
Toluene	0.125	0.134	0.137	107	110	75.0-121			2.21	20
Xylenes, Total	0.375	0.422	0.401	113	107	72.0-127			5.10	20
(S) Toluene-d8				*108*	*111*	*75.0-131*				
(S) 4-Bromofluorobenzene				*98.4*	*94.8*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*110*	*103*	*70.0-130*				

Method Blank (MB)

(MB) R3591443-3 11/09/20 12:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*96.8*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3591443-1 11/09/20 11:08 • (LCSD) R3591443-2 11/09/20 11:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.118	0.124	94.4	99.2	70.0-123			4.96	20
Ethylbenzene	0.125	0.136	0.134	109	107	74.0-126			1.48	20
Toluene	0.125	0.120	0.119	96.0	95.2	75.0-121			0.837	20
Xylenes, Total	0.375	0.388	0.409	103	109	72.0-127			5.27	20
(S) Toluene-d8				*101*	*102*	*75.0-131*				
(S) 4-Bromofluorobenzene				*107*	*104*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*120*	*120*	*70.0-130*				

L1280672-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1280672-13 11/09/20 14:24 • (MS) R3591443-4 11/09/20 19:48 • (MSD) R3591443-5 11/09/20 20:07

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.141	U	0.109	0.136	77.3	96.8	1	10.0-149			22.4	37
Ethylbenzene	0.141	U	0.126	0.150	89.6	106	1	10.0-160			17.1	38
Toluene	0.141	U	0.114	0.136	80.8	96.8	1	10.0-156			18.0	38
Xylenes, Total	0.422	U	0.377	0.441	89.3	105	1	10.0-160			15.7	38
(S) Toluene-d8					*102*	*103*		*75.0-131*				
(S) 4-Bromofluorobenzene					*99.7*	*100*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*101*	*102*		*70.0-130*				

Method Blank (MB)

(MB) R3589156-1 11/04/20 07:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*45.6*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3589156-2 11/04/20 07:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	28.7	57.4	50.0-150	
(S) o-Terphenyl			*61.9*	*18.0-148*	

Method Blank (MB)

(MB) R3589806-1 11/05/20 02:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*63.8*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3589806-2 11/05/20 03:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	40.8	81.6	50.0-150	
(S) o-Terphenyl			*81.1*	*18.0-148*	

L1280669-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1280669-19 11/06/20 09:31 • (MS) R3590159-1 11/06/20 09:44 • (MSD) R3590159-2 11/06/20 09:57

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	52.2	19.8	67.9	66.5	92.1	89.5	1	50.0-150			2.04	20
(S) o-Terphenyl					*68.0*	*34.5*		*18.0-148*				

Method Blank (MB)

(MB) R3589681-1 11/05/20 04:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*58.0*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3589681-2 11/05/20 04:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	36.5	73.0	50.0-150	
(S) o-Terphenyl			*79.1*	*18.0-148*	

L1280672-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1280672-16 11/05/20 08:00 • (MS) R3589681-3 11/05/20 08:13 • (MSD) R3589681-4 11/05/20 08:26

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	52.3	U	33.0	33.6	63.0	65.1	1	50.0-150			1.90	20
(S) o-Terphenyl					*58.5*	*64.8*		*18.0-148*				

Method Blank (MB)

(MB) R3591150-1 11/09/20 10:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*62.6*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3591150-2 11/09/20 10:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	43.6	87.2	50.0-150	
(S) o-Terphenyl			*85.4*	*18.0-148*	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

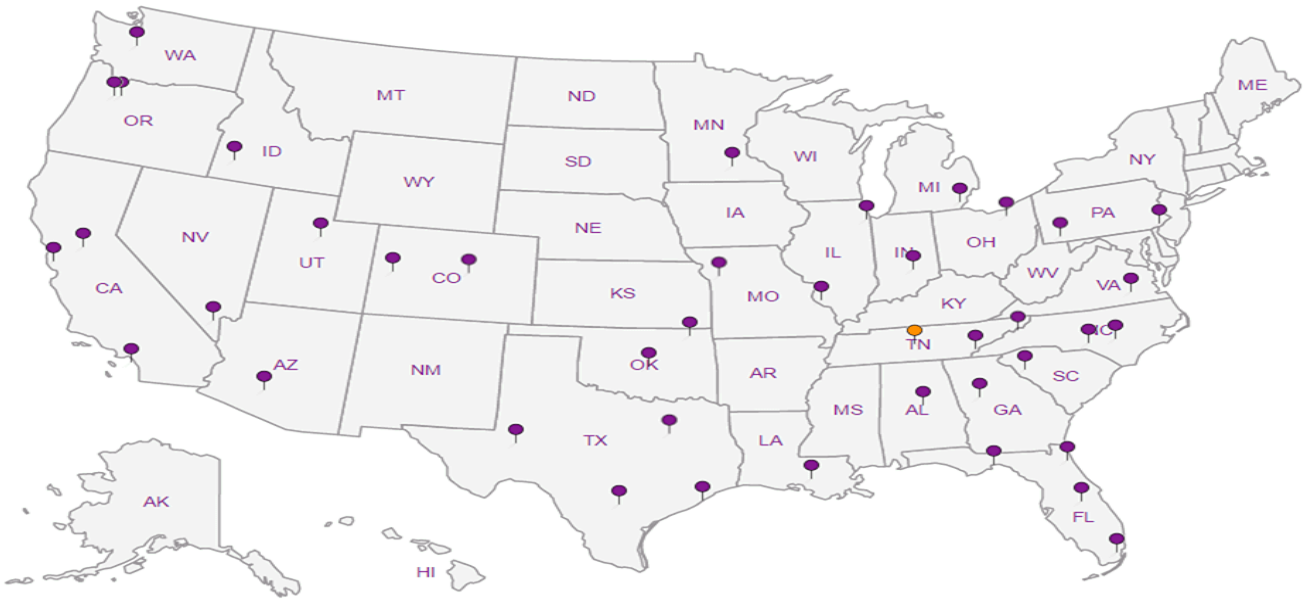
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	PAGE:
ConocoPhillips - Tetra Tech	212C-MD-02334 TASK3	L1280672	11/11/20 22:39	59 of 62

Analysis Request of Chain of Custody Record

Page : 1 of 3

Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

L1280672

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU Santa Fe 133 Battery Trunk Line Release (1RP-735)	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02334, Task No. 03
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
	BH-1 (0'-1')	10/29/20	1100		X				X			1	N	X		X												X						-01
	BH-1 (2'-3')	10/29/20	1110		X				X			1	N	X		X												X						-02
	BH-1 (4'-5')	10/29/20	1120		X				X			1	N	X		X												X						-03
	BH-1 (6'-7')	10/29/20	1130		X				X			1	N	X		X												X						-04
	BH-1 (9'-10')	10/29/20	1140		X				X			1	N	X		X												X						-05
	BH-1 (14'-15')	10/29/20	1200		X				X			1	N	X		X												X						-06
	BH-1 (19'-20')	10/29/20	1230		X				X			1	N	X		X												X						-07
	BH-2 (0'-1')	10/29/20	1300		X				X			1	N	X		X												X						-08
	BH-2 (2'-3')	10/29/20	1310		X				X			1	N	X		X												X						-09
	BH-2 (4'-5')	10/29/20	1320		X				X			1	N	X		X												X						-10

Relinquished by: Joe Tyler	Date: 11-2-20	Time: 14:00	Received by:	Date: 11-2-20	Time: 14:00
Relinquished by:	Date: 11-2-20	Time: 15:30	Received by: Scott	Date: 11-2-20	Time: 15:30
Relinquished by:	Date:	Time:	Received by: B. Barnes	Date: 11-3-20	Time: 0800

LAB USE ONLY
Sample Temperature

REMARKS:
- [X] Standard
- [ ] RUSH: Same Day 24 hr. 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

0.5-.1=0.4 AJ CK

RAD SCREEN: <0.5 mR/hr

Received by OCD: 11/7/2024 2:03:41 PM

Analysis Request of Chain of Custody Record

Page : 2 of 3

Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

1280672

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU Santa Fe 133 Battery Trunk Line Release (1RP-735)	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02334, Task No. 03
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Joe Tyler

Comments: COPTETRA Acctnum

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	HNO_3	ICE	NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD
	BH-2 (6'-7')	10/29/20	1330		X			X		1	N	X		X												X				-11	-20
	BH-2 (9'-10')	10/29/20	1340		X			X		1	N	X		X												X				-12	-21
	BH-2 (14'-15')	10/29/20	1400		X			X		1	N	X		X												X				-13	-22
	BH-2 (19'-20')	10/29/20	1430		X			X		1	N	X		X												X				-14	-23
	BH-3 (0'-1')	10/29/20	1500		X			X		1	N	X		X												X				-15	-24
	BH-3 (2'-3')	10/29/20	1510		X			X		1	N	X		X												X				-16	-25
	BH-3 (4'-5')	10/29/20	1520		X			X		1	N	X		X												X				-17	-26
	BH-3 (6'-7')	10/29/20	1530		X			X		1	N	X		X												X				-18	-27
	BH-3 (9'-10')	10/29/20	1540		X			X		1	N	X		X												X				-19	-28
	BH-3 (14'-15')	10/29/20	1600		X			X		1	N	X		X												X				-20	-29

Relinquished by:	Joe Tyler	Date: 11-2-20	Time: 14:00	Received by:	Date: 11-2-20	Time: 1461
Relinquished by:		Date: 11-2-20	Time: 15:30	Received by: SDA	Date: 11-2-20	Time: 15:30
Relinquished by:		Date:	Time:	Received by: B. Banas	Date: 11-3-20	Time: 0800

LAB USE ONLY

Sample Temperature

REMARKS:

- [X] Standard
- [ ] RUSH: Same Day 24 hr. 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

0.5-.1=0.4 ΔJ ck

RAD SCREEN: <0.5 mR/hr

Released to Imaging: 12/18/2024 2:18:02 PM

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

4280672

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU Santa Fe 133 Battery Trunk Line Release (1RP-735)	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02334, Task No. 03
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
	BH-3 (19'-20')	10/29/20	1630		X				X			1	N	X		X												X				-21		-11
	BH-4 (0'-1')	10/30/20	1000		X				X			1	N	X		X												X				-22		-12
	BH-4 (3'-4')	10/30/20	1010		X				X			1	N	X		X												X				-23		-13
	BH-5 (0'-1')	10/30/20	1030		X				X			1	N	X		X												X				-24		-14
	BH-5 (3'-4')	10/30/20	1040		X				X			1	N	X		X												X				-25		-15
	BH-6 (0'-1')	10/30/20	1100		X				X			1	N	X		X												X				-26		-16
	BH-6 (3'-4')	10/30/20	1110		X				X			1	N	X		X												X				-27		-17
	BH-7 (0'-1')	10/30/20	1130		X				X			1	N	X		X												X				-28		-18
	BH-7 (3'-4')	10/30/20	1140		X				X			1	N	X		X												X				-29		-19

Relinquished by: Joe Tyler	Date: 11-2-20	Time: 14:00	Received by:	Date: 11-2-20	Time: 14:00
Relinquished by:	Date: 11-2-20	Time: 15:30	Received by:	Date: 11-2-20	Time: 15:30
Relinquished by:	Date:	Time:	Received by: B. Barras	Date: 11-3-20	Time: 0800

LAB USE ONLY
Sample Temperature

REMARKS:
- [X] Standard
- [ ] RUSH: Same Day 24 hr. 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

0.5-1=0.4 JJ CK

ORIGINAL COPY

A224

RAD SCREEN: <0.5 mR/hr

CARDINAL Laboratories

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

June 28, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: SANTA FE #133 TRUNKLINE

Enclosed are the results of analyses for samples received by the laboratory on 06/25/24 15:33.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/25/2024	Sampling Date:	06/25/2024
Reported:	06/28/2024	Sampling Type:	Soil
Project Name:	SANTA FE #133 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY		

Sample ID: SW - 1 (H243795-01)

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	06/26/2024	ND	2.00	100	2.00	1.44	
Toluene*	<0.050	0.050	06/26/2024	ND	2.13	106	2.00	1.36	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.54	109	6.00	0.481	
Total BTEX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *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	**32.0**	16.0	06/26/2024	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	06/26/2024	ND	179	89.3	200	1.96	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	181	90.7	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane *86.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *80.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/25/2024	Sampling Date:	06/25/2024
Reported:	06/28/2024	Sampling Type:	Soil
Project Name:	SANTA FE #133 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY		

Sample ID: SW - 2 (H243795-02)

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	06/26/2024	ND	2.00	100	2.00	1.44	
Toluene*	<0.050	0.050	06/26/2024	ND	2.13	106	2.00	1.36	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.54	109	6.00	0.481	
Total BTEX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *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	**256**	16.0	06/26/2024	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	06/26/2024	ND	179	89.3	200	1.96	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	181	90.7	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane *99.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *94.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/25/2024	Sampling Date:	06/25/2024
Reported:	06/28/2024	Sampling Type:	Soil
Project Name:	SANTA FE #133 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY		

Sample ID: SW - 3 (H243795-03)

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	06/26/2024	ND	2.00	100	2.00	1.44	
Toluene*	<0.050	0.050	06/26/2024	ND	2.13	106	2.00	1.36	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.54	109	6.00	0.481	
Total BTEX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *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	**32.0**	16.0	06/26/2024	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	06/26/2024	ND	179	89.3	200	1.96	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	181	90.7	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane *84.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *78.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/25/2024	Sampling Date:	06/25/2024
Reported:	06/28/2024	Sampling Type:	Soil
Project Name:	SANTA FE #133 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY		

Sample ID: SW - 4 (H243795-04)

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	06/26/2024	ND	2.00	100	2.00	1.44	
Toluene*	<0.050	0.050	06/26/2024	ND	2.13	106	2.00	1.36	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.54	109	6.00	0.481	
Total BTEX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *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	**32.0**	16.0	06/26/2024	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	06/26/2024	ND	179	89.3	200	1.96	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	181	90.7	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane *74.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *69.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/25/2024	Sampling Date:	06/25/2024
Reported:	06/28/2024	Sampling Type:	Soil
Project Name:	SANTA FE #133 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY		

Sample ID: SW - 5 (H243795-05)

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	06/26/2024	ND	2.04	102	2.00	2.57	
Toluene*	<0.050	0.050	06/26/2024	ND	2.01	100	2.00	1.82	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.05	103	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.02	100	6.00	1.91	
Total BTEX	<0.300	0.300	06/26/2024	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	**16.0**	16.0	06/26/2024	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	06/26/2024	ND	179	89.3	200	1.96	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	181	90.7	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane *91.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *85.6 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/25/2024	Sampling Date:	06/25/2024
Reported:	06/28/2024	Sampling Type:	Soil
Project Name:	SANTA FE #133 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY		

Sample ID: SW - 6 (H243795-06)

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	06/26/2024	ND	2.04	102	2.00	2.57	
Toluene*	<0.050	0.050	06/26/2024	ND	2.01	100	2.00	1.82	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.05	103	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.02	100	6.00	1.91	
Total BTEX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.7 %* *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	06/26/2024	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	06/26/2024	ND	179	89.3	200	1.96	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	181	90.7	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane *87.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *81.5 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/25/2024	Sampling Date:	06/25/2024
Reported:	06/28/2024	Sampling Type:	Soil
Project Name:	SANTA FE #133 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY		

Sample ID: SW - 7 (H243795-07)

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	06/26/2024	ND	2.04	102	2.00	2.57	
Toluene*	<0.050	0.050	06/26/2024	ND	2.01	100	2.00	1.82	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.05	103	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.02	100	6.00	1.91	
Total BTEX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.9 %* *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	**16.0**	16.0	06/26/2024	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	06/26/2024	ND	179	89.3	200	1.96	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	181	90.7	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane *87.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *79.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/25/2024	Sampling Date:	06/25/2024
Reported:	06/28/2024	Sampling Type:	Soil
Project Name:	SANTA FE #133 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY		

Sample ID: SW - 8 (H243795-08)

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	06/26/2024	ND	2.04	102	2.00	2.57	
Toluene*	<0.050	0.050	06/26/2024	ND	2.01	100	2.00	1.82	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.05	103	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.02	100	6.00	1.91	
Total BTEX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.6 %* *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	**48.0**	16.0	06/26/2024	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	06/26/2024	ND	179	89.3	200	1.96	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	181	90.7	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane *80.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *72.5 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/25/2024	Sampling Date:	06/25/2024
Reported:	06/28/2024	Sampling Type:	Soil
Project Name:	SANTA FE #133 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY		

Sample ID: BH - 1 (4') (H243795-09)

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	06/26/2024	ND	2.04	102	2.00	2.57	
Toluene*	<0.050	0.050	06/26/2024	ND	2.01	100	2.00	1.82	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.05	103	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.02	100	6.00	1.91	
Total BTEX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.0 %* *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	**32.0**	16.0	06/26/2024	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	06/26/2024	ND	179	89.3	200	1.96	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	181	90.7	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane *71.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *65.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/25/2024	Sampling Date:	06/25/2024
Reported:	06/28/2024	Sampling Type:	Soil
Project Name:	SANTA FE #133 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY		

Sample ID: BH - 2 (4') (H243795-10)

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	06/26/2024	ND	2.04	102	2.00	2.57	
Toluene*	<0.050	0.050	06/26/2024	ND	2.01	100	2.00	1.82	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.05	103	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.02	100	6.00	1.91	
Total BTEX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.2 %* *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	06/26/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	179	89.3	200	1.96	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	181	90.7	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane *91.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *84.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/25/2024	Sampling Date:	06/25/2024
Reported:	06/28/2024	Sampling Type:	Soil
Project Name:	SANTA FE #133 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY		

Sample ID: BH - 3 (4') (H243795-11)

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	06/26/2024	ND	2.04	102	2.00	2.57	
Toluene*	<0.050	0.050	06/26/2024	ND	2.01	100	2.00	1.82	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.05	103	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.02	100	6.00	1.91	
Total BTEX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.7 %* *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	06/26/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	179	89.3	200	1.96	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	181	90.7	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane *80.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *73.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/25/2024	Sampling Date:	06/25/2024
Reported:	06/28/2024	Sampling Type:	Soil
Project Name:	SANTA FE #133 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY		

Sample ID: BH - 4 (4') (H243795-12)

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	06/26/2024	ND	2.04	102	2.00	2.57	
Toluene*	<0.050	0.050	06/26/2024	ND	2.01	100	2.00	1.82	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.05	103	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.02	100	6.00	1.91	
Total BTEX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.1 %* *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	06/26/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	179	89.3	200	1.96	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	181	90.7	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane *89.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *85.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/25/2024	Sampling Date:	06/25/2024
Reported:	06/28/2024	Sampling Type:	Soil
Project Name:	SANTA FE #133 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY		

Sample ID: BH - 5 (4') (H243795-13)

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	06/26/2024	ND	2.04	102	2.00	2.57	
Toluene*	<0.050	0.050	06/26/2024	ND	2.01	100	2.00	1.82	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.05	103	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.02	100	6.00	1.91	
Total BTEX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.4 %* *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	06/26/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	179	89.3	200	1.96	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	181	90.7	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane *71.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *64.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	06/25/2024	Sampling Date:	06/25/2024
Reported:	06/28/2024	Sampling Type:	Soil
Project Name:	SANTA FE #133 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	LEA COUNTY		

Sample ID: BH - 6 (4') (H243795-14)

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	06/26/2024	ND	2.04	102	2.00	2.57	
Toluene*	<0.050	0.050	06/26/2024	ND	2.01	100	2.00	1.82	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.05	103	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.02	100	6.00	1.91	
Total BTEX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.9 %* *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	06/26/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	215	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	214	107	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane *92.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *90.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 109 of 139

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

p 1 of

		BILL TO	
Company Name:	Tetratech	P.O. #:	
Project Manager:	Chuck Terhune	Company:	Mavencia
Address:		Attn:	Bryce W.
City:	State: Zip:	Address:	
Phone #:	Fax #:	City:	
Project #:	Project Owner:	State: Zip:	
Project Name:	Santa Fe 133 Trunkline	Phone #:	
Project Location:	Lea Co. NM	Fax #:	
Sampler Name:	AG		

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST										
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	BTEX	TPH	Chlorides									
H243795											✓		2024													
1	SW-1					X					X		6/25		X	X	X									
2	SW-2																									
3	SW-3																									
4	SW-4																									
5	SW-5																									
6	SW-6																									
7	SW-7																									
8	SW-8																									
9	BH-1 (4')																									
10	BH-2 (4')																									

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 6/25	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 3:35		All Results are emailed. Please provide Email address:
Relinquished By:	Date: 6.25	Received By:	REMARKS: chris.straub@tetratech.com; jorge.fernandez@tetratech
	Time: 1533		adrian.garcia@tetratech

Delivered By: (Circle One)	Observed Temp. °C 1.4	Sample Condition Cool ☑ Yes Intact ☑ Yes	CHECKED BY: (Initials)	Turnaround Time: Standard ☐ Rush ☑	Bacteria (only) Sample Condition Cool ☐ Yes Intact ☐ Yes Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C	☐ No ☐ No	AD	Thermometer ID #140 Correction Factor 0°C	72 hr ☐ No ☐ No Corrected Temp. °C

FORM-006 R 3.4 07/11/23

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

Received by OCD: 11/7/2024 2:03:41 PM

Released to Imaging: 12/18/2024 2:18:02 PM

Page 110 of 139

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

p 2 of 2

Company Name:	Tetra Tech	**BILL TO**	
Project Manager:		P.O. #:	
Address:		Company:	
City:	State: Zip:	Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	City:	
Project Name:		State: Zip:	
Project Location:		Phone #:	
Sampler Name:		Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX	TPH	Chlorid
H243795													2024				
11	BH 3 (4')		1			X					✓		6/25		X	X	X
12	BH 4 (4')		↓			↓					↓		↓		↓	↓	↓
13	BH 5 (4')																
14	BH 6 (4')																

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 6/25	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 3:30p	aPanos	All Results are emailed. Please provide Email address: cl
Relinquished By:	Date: 6-2524	Received By:	REMARKS: chris.straub@tetratech.jorge.fernandez@tetratech adrian.ga
	Time: 1533		

Delivered By: (Circle One)	Observed Temp. °C 1.4	Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials) AD	Turnaround Time: Standard ☐ Rush ☒ 72hr; Thermometer ID #140; Correction Factor 0°C; Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C			

FORM-006 R 3.4 07/11/23

† Cardinal cannot accept verb[illegible] change[illegible] Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 11/7/2024 2:03:41 PM

Released to Imaging: 12/18/2024 2:18:02 PM

ATTACHMENT 3 – CULTURAL RESOURCES SURVEY COVER SHEET

Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:
(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

(A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
(B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
(C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number: Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

ATTACHMENT 4 – PHOTOGRAPHIC DOCUMENTATION

Received by OCD: 11/7/2024 2:03:41 PM

W 270 NW 300 330 N 0 30 NE 60

339°N (T) **LAT:** 32.791560 **LON:** -103.492729 ±4m ▲1217m

Site Remediation
Tetra Tech

Maverick- Santa Fe 133
Jun 27 2024, 12:28:37 MDT

Released to Imaging: 12/18/2024 2:18:02 PM

Received by OCD: 11/7/2024 2:03:41 PM

NW N NE E SE

330 0 30 60 90 120

44°NE (T) **LAT:** 32.791481 **LON:** -103.492756 ±4m ▲ 1213m

Site Remediation
Tetra Tech

Maverick- Santa Fe 133
Jun 27 2024, 12:28:53 MDT

Released to Imaging: 12/18/2024 2:18:02 PM

Received by OCD: 11/7/2024 2:03:41 PM

Released to Imaging: 12/18/2024 2:18:02 PM

Received by OCD: 11/7/2024 2:03:41 PM

Released to Imaging: 12/18/2024 2:18:02 PM

Received by OCD: 11/7/2024 2:03:41 PM

SE S SW W

120 150 180 210 240 270

188°S (T) **LAT:** 32.791560 **LON:** -103.492955 ±4m ▲ 1213m

Site Remediation
Tetra Tech

Maverick- Santa Fe 133
Jun 27 2024, 12:30:04 MDT

Released to Imaging: 12/18/2024 2:18:02 PM

Received by OCD: 11/7/2024 2:03:41 PM

Released to Imaging: 12/18/2024 2:18:02 PM

Received by OCD: 11/7/2024 2:03:41 PM

Released to Imaging: 12/18/2024 2:18:02 PM

Received by OCD: 11/7/2024 2:03:41 PM

Released to Imaging: 12/18/2024 2:18:02 PM

Received by OCD: 11/7/2024 2:03:41 PM

Released to Imaging: 12/18/2024 2:18:02 PM

Received by OCD: 11/7/2024 2:03:41 PM

S 180 210 SW 240 W 270 300 NW 330

252°W (T) **LAT:** 32.791554 **LON:** -103.492561 ±4m ▲ 1215m

Site Remediation
Tetra Tech

Maverick- Santa Fe 133
Jul 08 2024, 13:28:04 MDT

Released to Imaging: 12/18/2024 2:18:02 PM

Page 124 of 139

Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347 (800) 262-9892 Permit # TX00905

NMSLO Loamy Lot/Sales # SO-82997

Kind & Variety	Pure Seed	Germ	Dormant	Hard Seed	Origin
Bluestem, Little "Cimarron" (Schizachyrium scoparium)	10.91%	61.00%	25.00%	0.00%	TX
Dropseed, Sand (Sporobolus cryptandrus)	13.04%	74.00%	22.00%	0.00%	TX
Grama, Blue (Bouteloua gracilis)	13.24%	52.00%	43.00%	0.00%	NM
Grama, Sideoats "Vaughn" (Bouteloua curtipendula)	27.33%	73.00%	19.00%	0.00%	TX
Indian Blanket (Gaillardia pulchella)	6.52%	96.00%	0.00%	0.00%	TX
Sacaton Alkali (Sporobolus airoides)	6.40%	99.00%	0.00%	0.00%	OK
Saltbush Fourwing (Atriplex canescens)	9.46%	99.00%	0.00%	0.00%	NM

Purity: 56.90% Inert Matter: 10.11% Other Crop Seed: 2.92% Weed Seed: 0.08%

Received by OCD: 11/7/2024 2:03:41 PM
Released to Imaging: 12/18/2024 2:18:02 PM

ATTACHMENT 5 – SEED MIXTURE

NMSLO Seed Mix Loamy (L)

LOAMY (L) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	F
Sand dropseed	VNS, Southern	2.0	S
Alkali sacaton	VNS, Southern	1.0	
Little bluestem	Cimarron, Pastura	1.5	F
Forbs:			
Firewheel (*Gaillardia*)	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
	Total PLS/acre	**18.0**	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box
VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 400456

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 400456
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nPAC0605538935**
Incident Name	**NPAC0605538935 CONOCOPHILLIPS EVGSAU SANTE FE 133 BTRY TRUNKLINE @ 0**
Incident Type	**Oil Release**
Incident Status	**Reclamation Report Received**
Incident Facility	**[fPAC0605538757] ConocoPhillips EVGSAU Sante Fe 133 Btry Trunkline**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CONOCOPHILLIPS EVGSAU SANTE FE 133 BTRY TRUNKLINE
Date Release Discovered	10/25/2004
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil 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	Cause: Vandalism | Pipeline (Any) | Crude Oil | Released: 5 BBL | Recovered: 4 BBL | Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Vandalism | Pipeline (Any) | Produced Water | Released: 2 BBL | Recovered: 1 BBL | Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 400456
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. 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: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetratech.com Date: 11/07/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 400456
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
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	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

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)	408
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	530
GRO+DRO (EPA SW-846 Method 8015M)	404
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
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	06/18/2024
On what date will (or did) the final sampling or liner inspection occur	06/25/2024
On what date will (or was) the remediation complete(d)	07/05/2024
What is the estimated surface area (in square feet) that will be reclaimed	2325
What is the estimated volume (in cubic yards) that will be reclaimed	344
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 400456
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*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: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetratech.com Date: 11/07/2024
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.	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 400456
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 400456
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**356719**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**06/28/2024**
What was the (estimated) number of samples that were to be gathered	**5**
What was the sampling surface area in square feet	**1000**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	2325
What was the total volume (in cubic yards) reclaimed	344
Summarize any additional remediation activities not included by answers (above)	None

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

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

I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetratech.com Date: 11/07/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 400456
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	2325
What was the total volume of replacement material (in cubic yards) for this site	344
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	07/09/2024
Summarize any additional reclamation activities not included by answers (above)	None
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetratech.com Date: 11/07/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 400456
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 400456
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Reclamation/Remediation Closure Report for Incident #NPAC0605538935 CONOCOPHILLIPS EVGSAU SANTE FE 133 BTRY TRUNKLINE, thank you. This Reclamation/Remediation Closure Report is approved.	12/18/2024
rhamlet	For future reference, the reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical.	12/18/2024