



January 31, 2024

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Remediation and Closure Report
Maverick Permian, LLC
MCA CO₂ Compressor Vent Line
Unit Letter M, Section 21, Township 17 South, Range 32 East
Lea County, New Mexico
Incident ID# nJXK1620136648**

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was initially contracted by ConocoPhillips to assess a release that occurred from a vent line originating from the Maljamar Cooperative Agreement (MCA) CO₂ Compressor. The release footprint is located in Public Land System Survey (PLSS) Unit Letter M, Section 21, Township 17 South, Range 32 East, in Lea County, New Mexico (Site). The release occurred at coordinates 32.813643°, -103.776895°, as shown in **Figure 1** and **Figure 2**. In June of 2022, Maverick Permian LLC acquired this site from COP and has performed the remediation in accordance with the revised Work Plan completed on August 25, 2023, in response to NMOCD comments received on April 26, 2023 regarding the remediation approach.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), on July 18, 2016, a leak was discovered at a vent line originating at the MCA CO₂ Compressor Station. The leak resulted in a release of approximately 45 barrels (bbls) of oil, of which 40 bbls were recovered. Immediate action taken by ConocoPhillips included shutting in the line to stop the release and submit a work order for repairs. COP also excavated an 8-inch-deep, 20-foot (ft) by 20-ft area of pasture during the initial response. The New Mexico Oil Conservation Division (NMOCD) was notified of the release on the following day, on July 19, 2016, and subsequently assigned the Site the Incident Identification Number nJXK1620136648. The release extent is shown in **Figure 3** and the initial C-141 Release Notification form is included in **Attachment 1**.

SITE CHARACTERIZATION

Receptors

Tetra Tech performed a site characterization and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

Soils

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is mapped as having Kermit Soils and Dune Land, 0 to 12 Percent Slopes, which is classified as a sandy soil with a published soil profile of fine sand from the surface to 7 feet bgs, and Maljamar and Palomas Fine Sands,

Tetra Tech, Inc.

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

Remediation and Closure Report
 Maverick Permian, LLC
 MCA CO₂ Compressor Vent Line Release
 Incident ID: nJXK1620136648

January 31, 2024

0 to 3 Percent Slopes, which is classified as a sandy soil with a published soil profile of fine sand from surface to 2 feet bgs, sandy clay loam from 2 to 4 feet bgs, and cemented material from 4 to 5 feet bgs. The USDA NCRS Soil Map and soil profile are provided in **Attachment 2**.

Depth to Groundwater

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are eight (8) water wells listed within an 800-meter (approximately ½-mile) radius of the Site on the New Mexico Office of the State Engineer (NMOSE) database. The average depth to groundwater is 85 ft below ground surface (bgs). Site characterization data are included in **Attachment 2**.

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 Xylene (BTEX), Total Petroleum Hydrocarbons (TPH), and chloride in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site for groundwater between 51 and 100 feet bgs are as follows:

Closure Criteria for Soils Impacted by a Release

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

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations 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

INITIAL RESPONSE ACTIVITIES

The release occurred due to a hole in a vent line releasing approximately 45 barrels (bbls) of oil into the adjacent open pastureland. Initial response recovered approximately 40 bbls of fluid with a vac-truck. In July 2016, Basin

Remediation and Closure Report
Maverick Permian, LLC
MCA CO₂ Compressor Vent Line Release
Incident ID: nJXK1620136648

January 31, 2024

Environmental Service Technologies (Basin) conducted soil field screening on behalf of ConocoPhillips at three (3) locations within the release extent (Vert 1 through Vert 3). No samples were submitted for laboratory analysis. A summary of the field screening results is presented in **Table 1**. An approximately 8-inch deep, 20-foot by 20-foot area was excavated shortly after the release.

SITE ASSESSMENT SUMMARY

Tetra Tech personnel mobilized to the Site to conduct initial assessment soil sampling in October 2018 to verify the reported release extent. As shown in **Figure 4**, a total of nine hand auger borings (AH-1 through AH-9) were installed either to 5 ft below ground surface (bgs) or to hand auger refusal. Seven borings were drilled within the release extent footprint to achieve vertical delineation. The remaining borings (AH-2 and AH-7) were installed along the perimeter of the release extent (to the northwest and southeast respectively) to a depth of 5 ft bgs to achieve horizontal delineation. The boring locations chosen for the horizontal delineation were based on visual cues such as discolored soil and stressed vegetation. The excavation at the point of the release was observed during this release assessment and had not yet been backfilled. A total of 38 samples collected from the nine (9) borings were submitted to Pace Analytical National Center for Testing & Innovation in Nashville, Tennessee (Pace) for analysis of BTEX by EPA Method 8021B, chloride by EPA Method 300.0, and TPH by EPA Method 8015M. The results of these analyses are presented in **Table 2**.

Tetra Tech personnel mobilized back to the Site to conduct additional soil sampling on September 15, 2020, on behalf of ConocoPhillips to complete horizontal and vertical delineation of the release extent. A total of six horizontal sample (HS) borings were installed on the perimeter of the release with a hand auger (HS-1 through HS-6), and three trenches (TS-1 through TS-3) were installed within the release extent using a mini-excavator. These locations are shown in **Figure 5**. The horizontal sample borings were installed to terminal depths of 3 ft bgs to achieve horizontal delineation of the release extent. The three interior trenches were installed to terminal depths determined by field screening results, as well as the presence of a lithified caliche caprock, which was encountered at approximately 7 ft bgs at the three trench locations. A total of 31 samples were collected from the six (6) horizontal sample locations and three (3) trenches and submitted to Pace for analysis of BTEX by EPA Method 8021B, chloride by EPA Method 300.0, and TPH by EPA Method 8015M. The analytical results are presented in **Table 3**.

REMEDIATION AND CONFIRMATION SAMPLING

Excavation activities commenced on November 9, 2023, and concluded on December 12, 2023. Maverick's subcontractor, SDR Enterprises, LLC (SDR) used heavy equipment to excavate impacted soil from the remediation areas to maximum depths of 6, 16, and 18 feet bgs as shown in **Figure 6**. 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.

SDR excavated a total of 1,556 cubic yards of contaminated soil from an approximately 4,750-square-foot area and transported the soil to R360 for offsite disposal. SDR sourced 400 cubic yards of clean caliche and 960 cubic yards of clean topsoil to backfill the excavated areas.

On December 7, 2023, Tetra Tech submitted a C-141N Application to notify the NMOCD of confirmation sampling in accordance with 19.15.29.12(D)(1)(a) NMAC. Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected 40 confirmation samples on an approximate 200 square-foot basis, including 23 floor samples and 17 side wall samples from the excavated areas. Confirmation samples were submitted to Cardinal Laboratory in Hobbs, New Mexico for analysis of BTEX (8021B), chloride (SM4500 CL-B), and TPH (TPH 8015M). Laboratory analytical results for submitted confirmation samples reported concentrations of BTEX, TPH, and chloride as less than respective Reclamation Requirements for samples collected from depths shallower than 4 feet bgs. For all samples obtained at or below a depth of 4 feet bgs, laboratory analytical results reported

Remediation and Closure Report
Maverick Permian, LLC
MCA CO₂ Compressor Vent Line Release
Incident ID: nJXK1620136648

January 31, 2024

constituent concentrations as less than RRALs, and clean margins were demonstrated. Confirmation sampling locations and excavation extents are shown in **Figure 6**.

Between December 7 and 12, 2023, subsequent to the receipt of confirmation sample results, SDR completed backfilling of the excavated areas with clean soil. Confirmation sampling laboratory analytical results screened against Reclamation Requirements and RRALs are summarized in **Table 4** and **Table 5** and laboratory analytical data packages including chain of custody documentation are included in **Attachment 3**. Photographic Documentation showing the excavated areas and final grading after backfilling is provided in **Attachment 4**.

The backfilled areas of impacted pastureland have been graded with topsoil and seeded with New Mexico State Land Office (NMSLO) Sandy (S) 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. The seed mixture applied to the remediation Site is provided in **Attachment 5**.

CONCLUSION

Based on the results of the confirmation sampling, the impacted soil within the release footprint with BTEX, chloride, and TPH concentrations greater than Reclamation Requirements and/or RRALs has been removed and properly disposed of offsite and the excavated area has been backfilled with clean material, graded, and seeded with BLM approved seed mixture; therefore, Site remediation is complete. If you have any questions concerning the remediation activities for the Site, please call Chris Straub at (832) 251-5180.

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
Bureau of Land Management

Remediation and Closure Report
Maverick Permian, LLC
MCA CO₂ Compressor Vent Line Release
Incident ID: nJK1620136648

January 31, 2024

LIST OF ATTACHMENTS

Figures

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent
- Figure 4 – Initial Site Assessment
- Figure 5 – Additional Site Assessment
- Figure 6 – Remediation Extent and Confirmation Sample Locations

Tables

- Table 1 – Summary of Analytical Results – Initial Soil Screening
- Table 2 – Summary of Analytical Results – Soil Assessment
- Table 3 – Summary of Analytical Results – Additional Soil Assessment
- Table 4 – Summary of Analytical Results – Confirmation Sidewall Sampling
- Table 5 – Summary of Analytical Results – Confirmation Floor Sampling

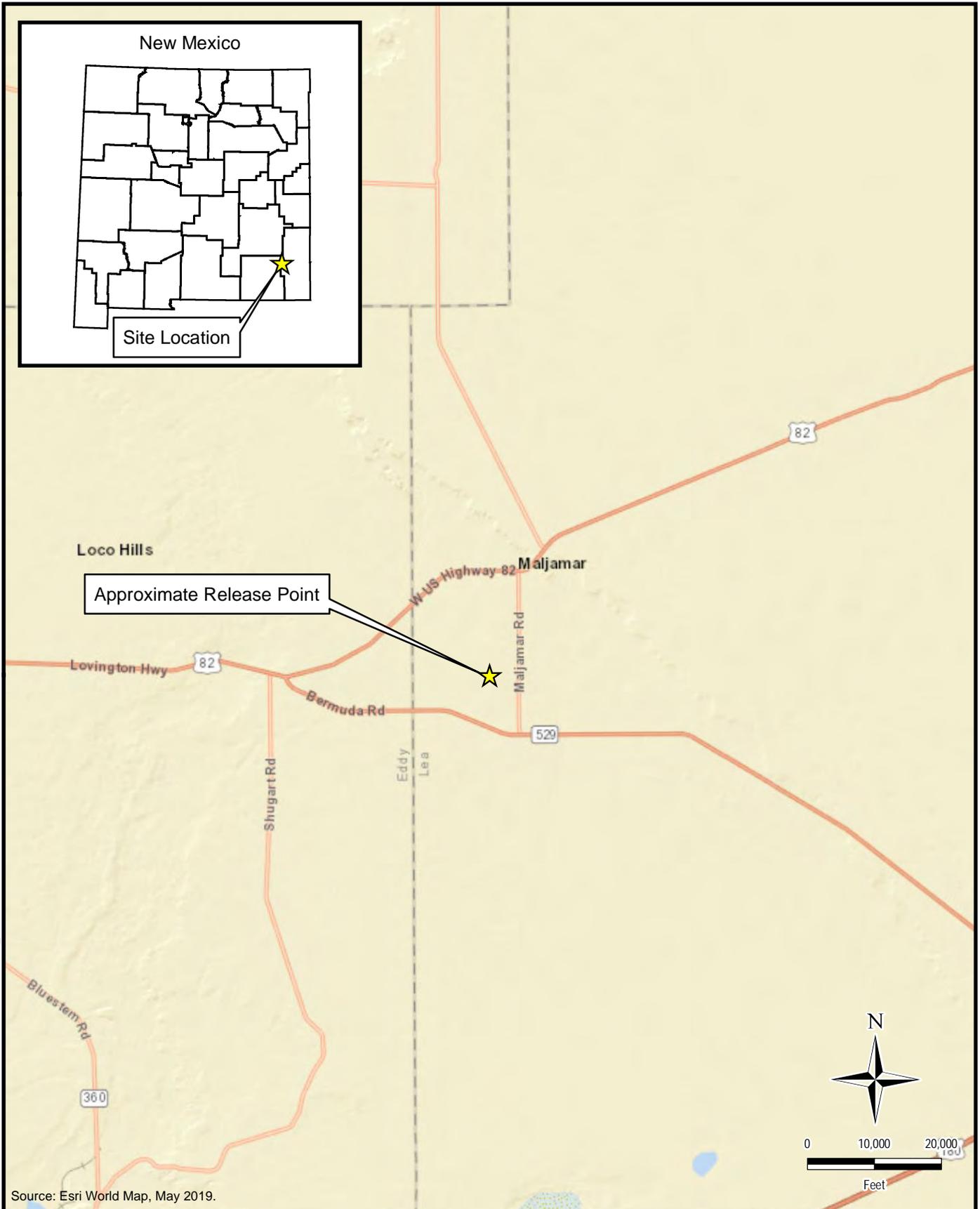
Attachments

- Attachment 1 – C-141 Forms
- Attachment 2 – Site Characterization Data
- Attachment 3 – Laboratory Analytical Data
- Attachment 4 – Photographic Documentation
- Attachment 5 – Seed Mixture Details

Remediation and Closure Report
Maverick Permian, LLC
MCA CO₂ Compressor Vent Line Release
Incident ID: nJK1620136648

January 31, 2024

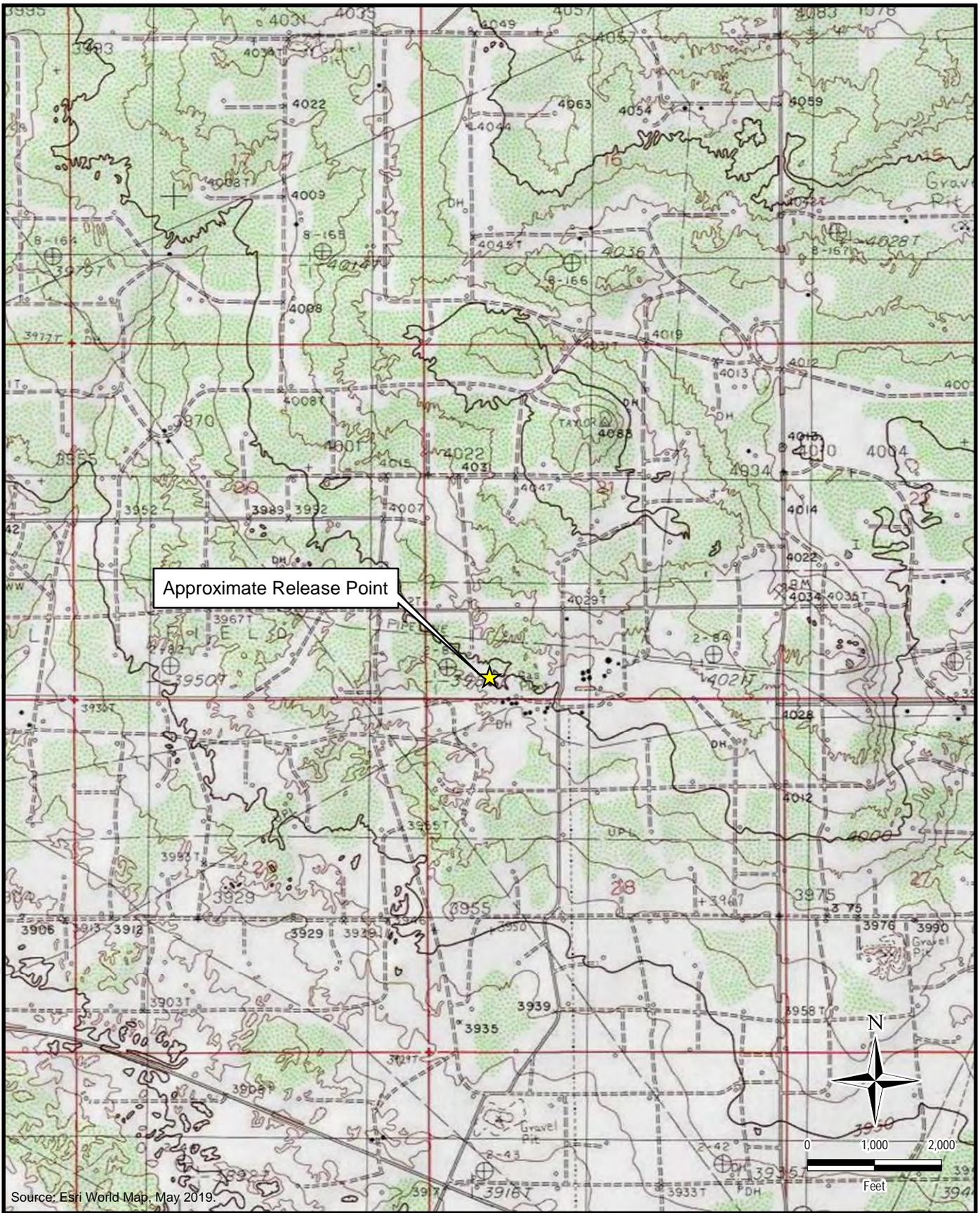
FIGURES



DOCUMENT PATH: D:\MAVERICK\WMD\1RP-4354\FIGURE 1 OVERVIEW MAP_CO2 COMPRESSOR.MXD

Source: Esri World Map, May 2019.

 <p>TETRA TECH</p> <p>www.tetrattech.com</p> <p>1500 CityWest Boulevard, Suite 1000 Houston, Texas 77042 Phone: (832) 281-5160 Fax: (832) 282-5170</p>	<p>MAVERICK NATURAL RESOURCES</p> <p>1RP-4354 (32.813636°, -103.776889°) LEA COUNTY, NEW MEXICO</p>	<p>PROJECT NO.: 212C-MD-03070</p> <p>DATE: AUGUST 24, 2023</p> <p>DESIGNED BY: AAM</p>
	<p>MCA CO2 COMPRESSOR VENT LINE RELEASE SITE LOCATION MAP</p>	
	<p>Figure No. 1</p>	



Approximate Release Point

DOCUMENT PATH: D:\MAVERICK\MD\1RP-4354\FIGURE 2 TOPO MAP_ MCA BATTERY 2.MXD

Source: Esri World Map, May 2019.



www.tetrattech.com
 1500 CityWest Boulevard, Suite 1000
 Houston, Texas 77042
 Phone: (832) 281-5160
 Fax: (832) 282-5170

MAVERICK NATURAL RESOURCES

1RP-4354
 (32.813636°, -103.776889°)
 LEA COUNTY, NEW MEXICO

MCA CO2 COMPRESSOR VENT LINE RELEASE
 TOPOGRAPHIC MAP

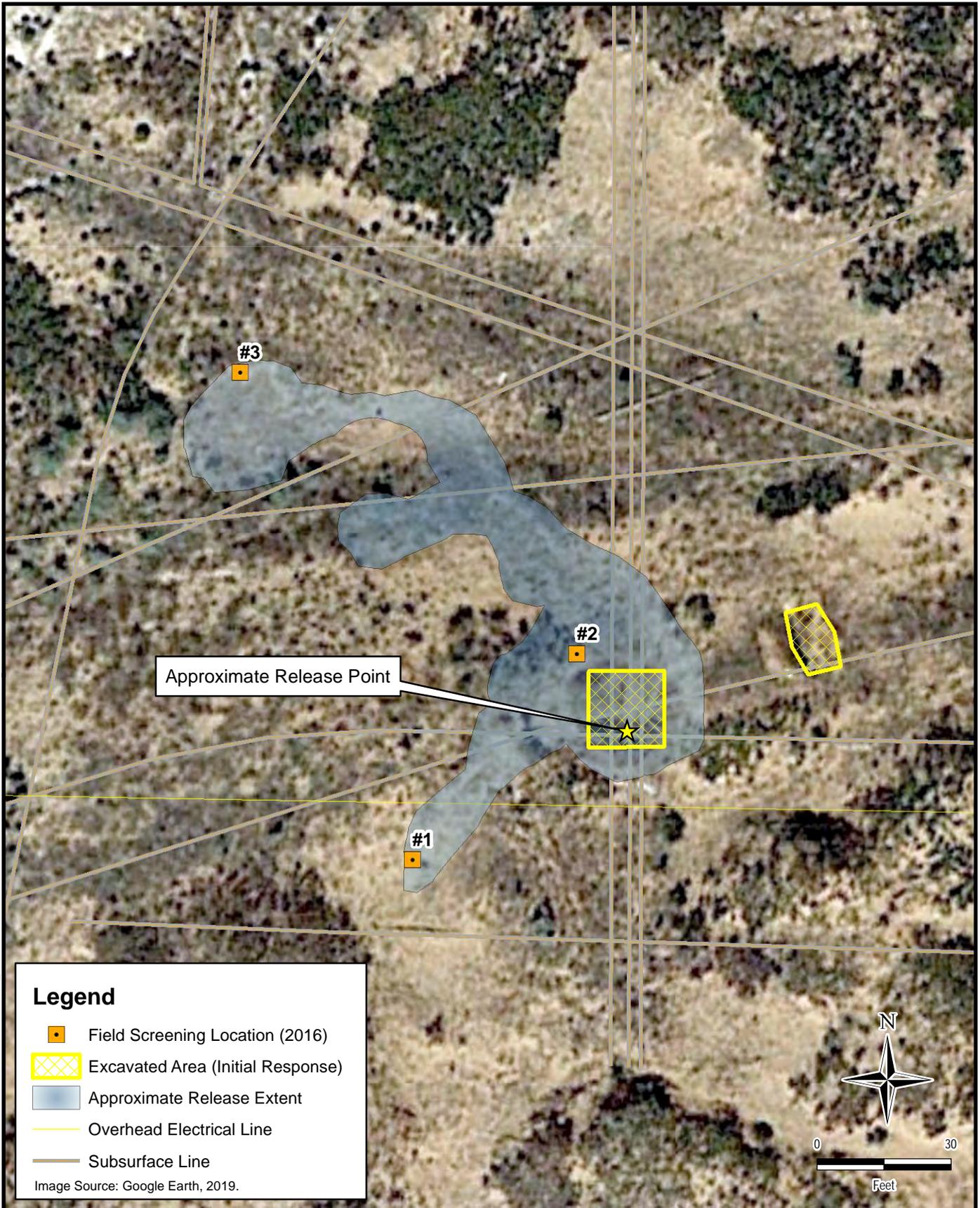
PROJECT NO.: 212C-MD-03070

DATE: AUGUST 24, 2023

DESIGNED BY: AAM

Figure No.

2



DOCUMENT PATH: D:\MAVERICK\WMD\1RP-4354\FIGURE 3 RELEASE_CO2 COMPRESSOR.MXD

Legend

- Field Screening Location (2016)
- Excavated Area (Initial Response)
- Approximate Release Extent
- Overhead Electrical Line
- Subsurface Line

Image Source: Google Earth, 2019.



TETRA TECH

www.tetrattech.com

1500 CityWest Boulevard, Suite 1000
Houston, Texas 77042
Phone: (832) 281-5160
Fax: (832) 282-5170

MAVERICK NATURAL RESOURCES

1RP-4354
(32.813636°, -103.776889°)
LEA COUNTY, NEW MEXICO

MCA CO2 COMPRESSOR VENT LINE RELEASE
APPROXIMATE RELEASE EXTENT AND FIELD SCREENING LOCATIONS

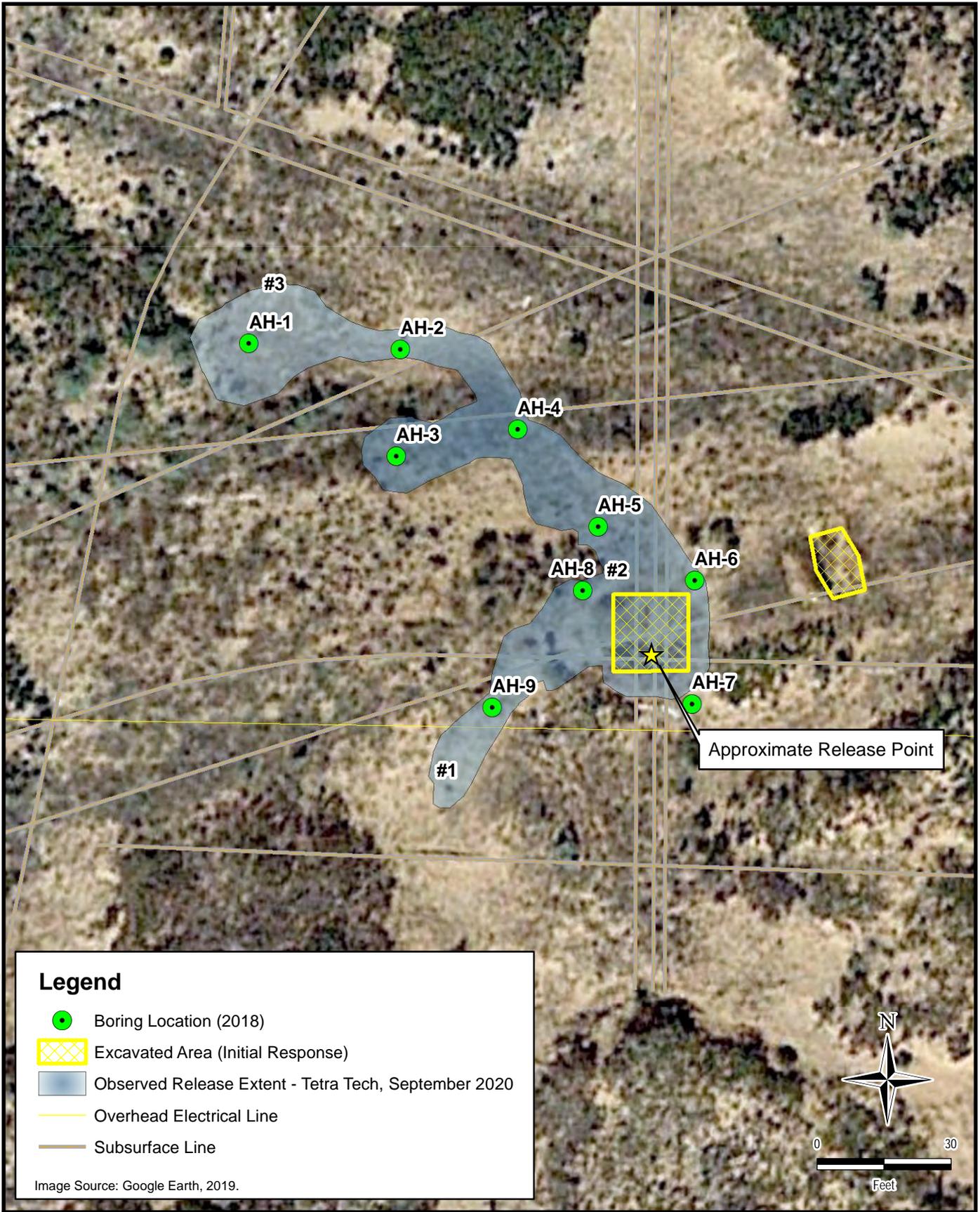
PROJECT NO.: 212C-MD-03070

DATE: AUGUST 24, 2023

DESIGNED BY: AAM

Figure No.

3



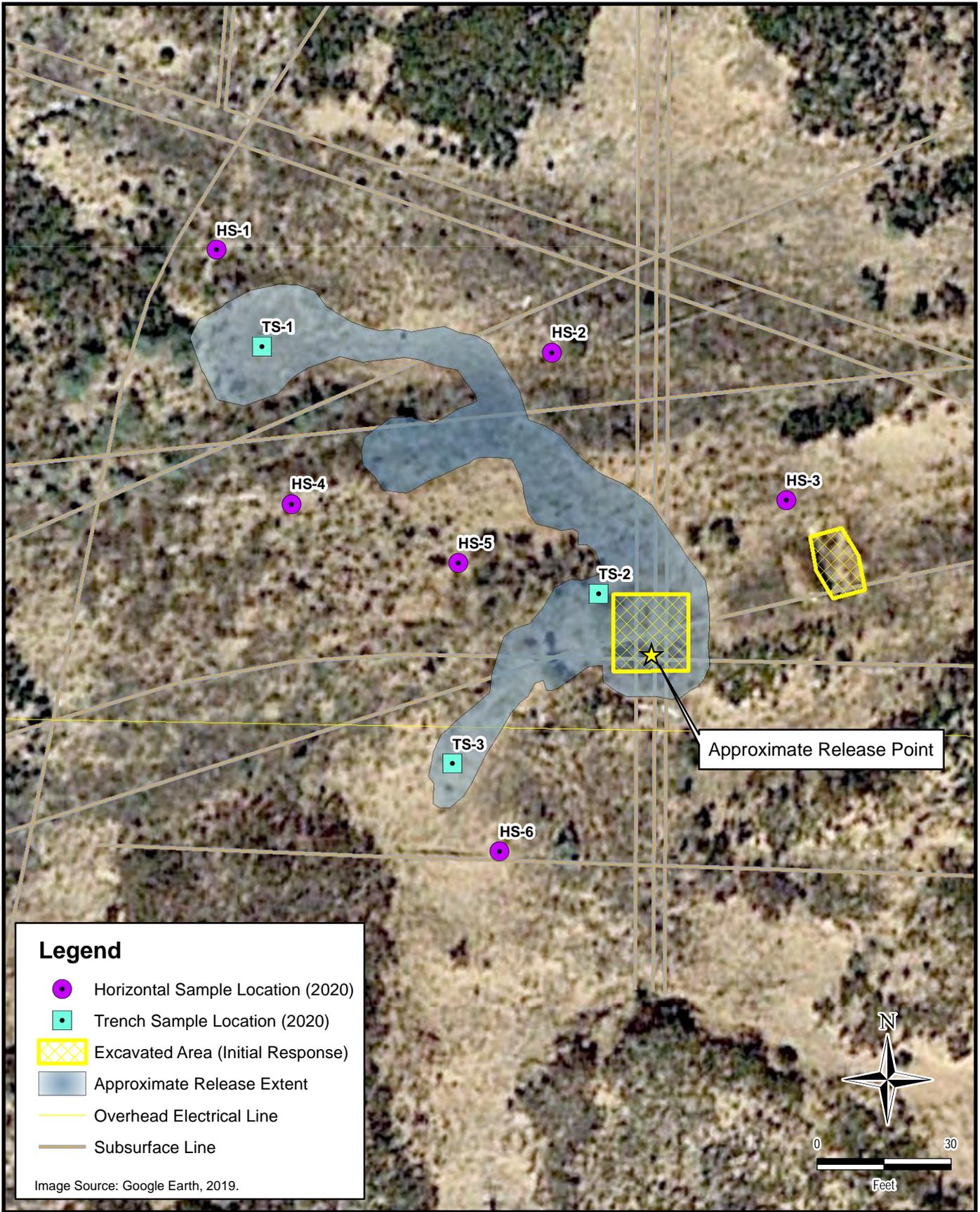
DOCUMENT PATH: D:\MAVERICK\WMD\1RP-4354\FIGURE 4 RELEASE_CO2_COMPRESSOR.MXD

Legend

- Boring Location (2018)
- Excavated Area (Initial Response)
- Observed Release Extent - Tetra Tech, September 2020
- Overhead Electrical Line
- Subsurface Line

Image Source: Google Earth, 2019.

 <p>www.tetrattech.com 1500 CityWest Boulevard, Suite 1000 Houston, Texas 77042 Phone: (832) 281-5160 Fax: (832) 282-5170</p>	<p>MAVERICK NATURAL RESOURCES</p> <p>1RP-4354 (32.813636°, -103.776889°) LEA COUNTY, NEW MEXICO</p>	<p>PROJECT NO.: 212C-MD-03070</p> <p>DATE: AUGUST 24, 2023</p> <p>DESIGNED BY: AAM</p>
	<p>MCA CO2 COMPRESSOR VENT LINE RELEASE INITIAL SITE ASSESSMENT</p>	
	<p>Figure No. 4</p>	



DOCUMENT PATH: D:\MAVERICK\WDX\1RP-4354\FIGURE 5 ADDITIONAL RELEASE_CO2 COMPRESSOR.MXD

Legend

-  Horizontal Sample Location (2020)
-  Trench Sample Location (2020)
-  Excavated Area (Initial Response)
-  Approximate Release Extent
-  Overhead Electrical Line
-  Subsurface Line

Image Source: Google Earth, 2019.



TETRA TECH
 www.tetrattech.com
 1500 CityWest Boulevard, Suite 1000
 Houston, Texas 77042
 Phone: (832) 281-5160
 Fax: (832) 282-5170

MAVERICK NATURAL RESOURCES

1RP-4354
 (32.813636°, -103.776889°)
 LEA COUNTY, NEW MEXICO

**MCA CO2 COMPRESSOR VENT LINE RELEASE
 ADDITIONAL SITE ASSESSMENT**

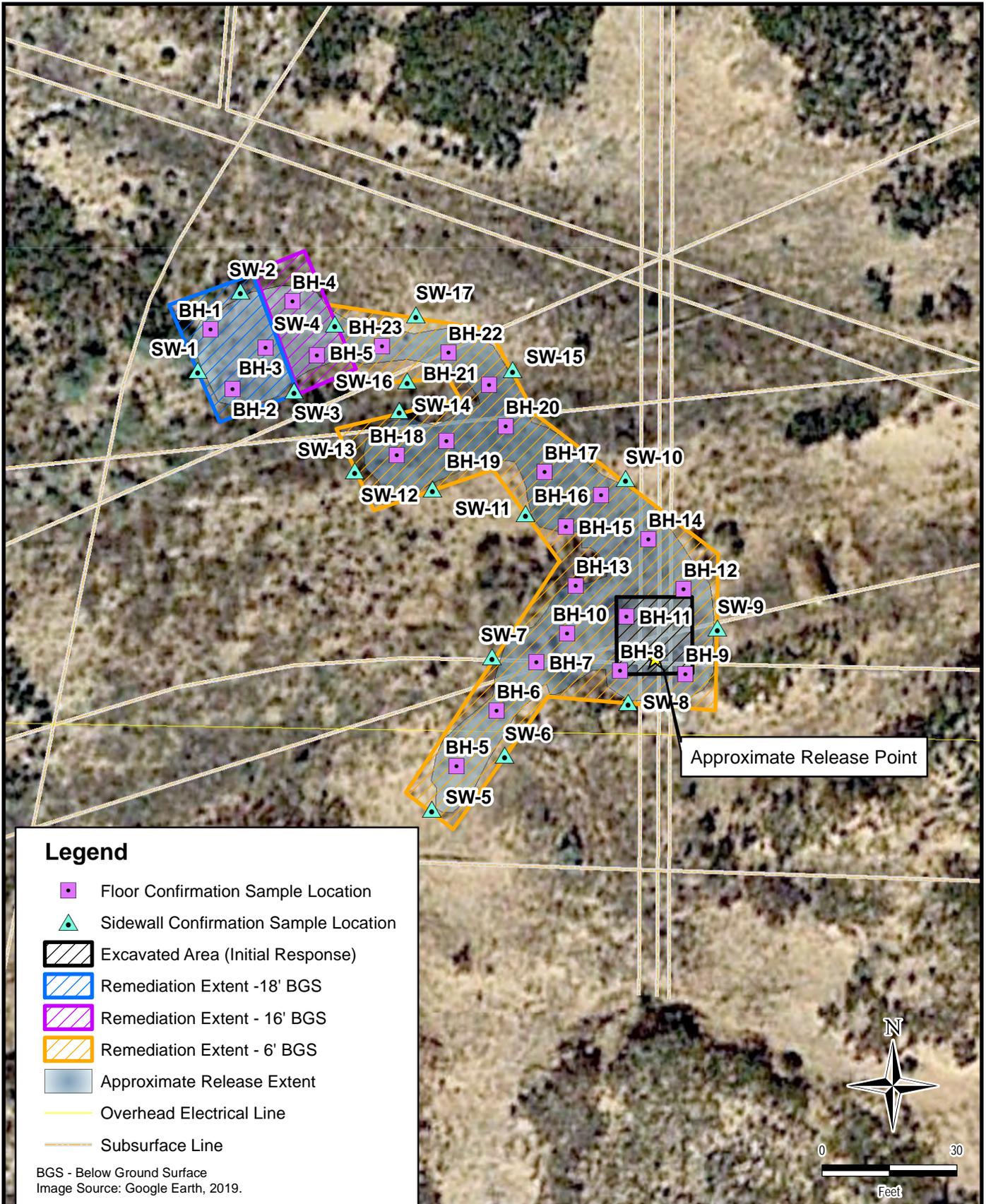
PROJECT NO.: 212C-MD-03070

DATE: AUGUST 24, 2023

DESIGNED BY: AAM

Figure No.

5



DOCUMENT PATH: D:\MAVERICK\WDX\1RP-4354\FIGURE 6 CSP_CO2 COMPRESSOR.MXD

Legend

- Floor Confirmation Sample Location
- ▲ Sidewall Confirmation Sample Location
- Excavated Area (Initial Response)
- Remediation Extent - 18' BGS
- Remediation Extent - 16' BGS
- Remediation Extent - 6' BGS
- Approximate Release Extent
- Overhead Electrical Line
- Subsurface Line

BGS - Below Ground Surface
Image Source: Google Earth, 2019.

TETRA TECH

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

MAVERICK PERMIAN, LLC

INCIDENT ID NJXK1620136648
(32.813636°, -103.776889°)
LEA COUNTY, NEW MEXICO

**MCA CO2 COMPRESSOR VENT LINE RELEASE
REMEDATION EXTENT & CONFIRMATION SAMPLING PLAN**

PROJECT NO.: 212C-MD-03287
DATE: JANUARY 31, 2024
DESIGNED BY: AAM

Figure No.
6

Remediation and Closure Report
Maverick Permian, LLC
MCA CO₂ Compressor Vent Line Release
Incident ID: nJK1620136648

January 31, 2024

TABLES

TABLE 1
 SUMMARY OF RESULTS
 INITIAL SOIL SCREENING
 1RP-4354
 MCA CO2 COMPRESSOR VENT LINE RELEASE
 LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Interval	Field Screening Results	
			Chlorides*	PID*
		ft. bgs	ppm	ppm
VERT 1	07/20/16	SS	255	899
		1	78	1620
		2	80	1525
		3	81	374
		4	82	242
VERT 2	07/20/16	SS	666	973
		1	50	1284
		2	104	1264
		3	117	1388
		4	119	1566
VERT 3	07/20/16	SS	130	1060
		1	110	1750
		2	129	1310
		3	111	1330
		4	104	1900

NOTES:

Field screening data only. Basin Environmental, 2016

- ft. Feet
- bgs Below ground surface
- ppm Parts Per Million
- SS Surface sample

TABLE 2
 SUMMARY OF ANALYTICAL RESULTS
 SOIL ASSESSMENT - 1RP-4354
 CONOCOPHILLIPS
 MCA CO2 COMPRESSOR VENT LINE RELEASE
 LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Interval	FIELD SCREENING RESULTS		Chloride ¹		BTEX ²										TPH ³						
			PID*	Chlorides*			Benzene		Toluene		Ethylbenzene		Xylene		Total BTEX		GRO		DRO		ORO		Total TPH (C ₆ - C ₄₀)
			ft. bgs	ppm	ppm	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	
AH-1	10/05/18	0-1	>600	22.2	43.0		<0.001		0.00530		0.00507		0.0077		0.018		0.185		5,310		2,640		7,950
	10/05/18	1-2	>600	45.1	47.8		<0.001		0.098		0.091		0.593		0.782		204		8,480		3,260		11,944
	10/05/18	2-3	>600	49.9	1.51		0.0651		2.01		1.40		5.97		9.45		617		4,710		1,420		6,747
	10/05/18	3-4	>600	32.5	NA		0.784		29.7		37.4		74.9		143		1,410		7,990		2,380		11,780
	10/05/18	4-5	>600	52.2	NA		<0.001		0.0874		6.27		18.4		24.8		659		7,710		2,260		10,629
AH-2	10/05/18	0-1	<10	18.5	39.8		<0.001	J3	<0.005	J3	<0.0025	J3	<0.0065	J3	<0.015	J3	0.0457	J	1.93	J	3.90	J	5.88
	10/05/18	1-2	<10	15.4	42.9		<0.001		<0.005		<0.0025		<0.0065		<0.015		<0.100		<4.00		4.26		4.26
	10/05/18	2-3	<10	18.5	2.61	B,J	<0.001		<0.005		<0.0025		<0.0065		<0.015		<0.100		<4.00		1.83	J	1.83 J
	10/05/18	3-4	<10	40.2	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
	10/05/18	4-5	<10	76.1	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
AH-3	10/05/18	0-1	>300	32.1	4.71	B,J	<0.001		0.0691		0.205		0.524		0.798		185		10,200		2,980		13,365
	10/05/18	1-2	>300	35.3	3.15	B,J	<0.001		<0.005		0.00796	J	0.0878		0.096		189		6,980		2,200		9,369
	10/05/18	2-3	>300	30.2	3.31	B,J	<0.001		<0.005		<0.0025		<0.0065		<0.015		137		5,880		1,960		7,977
	10/05/18	3-4	>300	48.2	NA		<0.001		0.0245	J	0.00985	J	<0.0065		0.034	J	122		7,080		2,330		9,532
	10/05/18	4-5	>300	21.9	NA		<0.001		<0.005		<0.0025		<0.0065		<0.015		81.0		4,380		1,970		6,431
AH-4	10/05/18	0-1	>350	34.5	3.44	B,J	<0.001		<0.005		<0.0025		0.174		0.174		176		9,850		2,950		12,976
	10/05/18	1-2	>350	21.1	4.01	B,J	<0.001		<0.005		<0.0025		0.0779		0.078		144		6,870		2,220		9,234
	10/05/18	2-3	>350	25.7	4.34	B,J	<0.001		<0.005		<0.0025		<0.0065		<0.015		92.0		4,460		1,610		6,162
	10/05/18	3-4	>350	27.4	NA		<0.001		<0.005		<0.0025		0.0431	J	0.043	J	47.4		1,770		777		2,594
	10/05/18	4-5	>350	32.9	NA		<0.001		<0.005		<0.0025		0.0687		0.069		62.7		2,480		1,010		3,553
AH-5	10/05/18	0-1	>350	58.3	9.63	B,J	<0.001		<0.005		0.0571		1.830		1.887		272		7,650		2,190		10,112
	10/05/18	1-2	>350	58.6	12.8	B	<0.001		<0.005		0.0398		2.230		2.270		353		6,640		1,800		8,793
	10/05/18	2-3	>350	54.4	14.2	B	<0.001		<0.005		<0.0025		0.164		0.164		219		4,110		1,180		5,509
	10/05/18	(REFUSAL AT 3)																					
AH-6	10/05/18	0-1	>600	161.0	245		<0.001		0.0362	J	0.153		1.94		2.129		146		7,700		2,450		10,296
	10/05/18	1-2	>600	447.0	85.1		<0.001		0.0376	J	0.103		2.01		2.151		189		5,730		2,020		7,939
	10/05/18	2-3	>600	126.0	60.9		<0.001		0.0830	J	0.095		2.80		2.978		337		5,490		1,820		7,647
	10/05/18	3-4	>600	476.0	NA		<0.001		<0.005		0.0161	J	0.409		0.425		90.5		5,340		1,850		7,281
	10/05/18	(REFUSAL AT 4)																					
AH-7	10/05/18	0-1	<10	16.2	1.73	B,J	<0.001		<0.005		<0.0025		<0.0065		<0.015	J	2.94	J	2.56	J			5.50 J
	10/05/18	1-2	<10	15.7	1.61	B,J	<0.001		<0.005		<0.0025		<0.0065		<0.015		<0.100		2.43	J	2.05	J	4.48 J
	10/05/18	2-3	<10	13.1	1.79	B,J	<0.001		<0.005		<0.0025		<0.0065		<0.015		<0.100		1.64	J	1.01	J	2.65 J
	10/05/18	3-4	<10	14.2	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
	10/05/18	(REFUSAL AT 4)																					

TABLE 2
 SUMMARY OF ANALYTICAL RESULTS
 SOIL ASSESSMENT - 1RP-4354
 CONOCOPHILLIPS
 MCA CO2 COMPRESSOR VENT LINE RELEASE
 LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Interval	FIELD SCREENING RESULTS		Chloride ¹		BTEX ²								TPH ³								
			PID*	Chlorides*			Benzene		Toluene		Ethylbenzene		Xylene		Total BTEX		GRO		DRO		ORO		Total TPH (C ₆ - C ₄₀)
			ft. bgs	ppm	ppm	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	
AH-8	10/05/18	0-1	>340	47.9	6.17	B,J,P1	<0.001		<0.005		0.00548		0.0372		0.043		10.4		8,290		2,870		11,170
	10/05/18	1-2	>340	32.4	47.3		<0.001		<0.005		<0.0025		0.0116		0.012		2.99		6,460		2,330		8,793
	10/05/18	2-3	>340	34.5	45.8		<0.001		<0.005		<0.0025		0.00899		0.009		1.10		1,580		588		2,169
	10/05/18	3-4	>340	34.9	NA		<0.001		<0.005		<0.0025		<0.0065		<0.015		0.0474	J,T8	753		410		1,163
	10/05/18	4-5	<120	40.1	NA		<0.001		<0.005		<0.0025		<0.0065		<0.015		<0.100		1,640		665		2,305
AH-9	10/05/18	0-1	>350	28.5	49.9		<0.001		<0.005		0.00659	J	0.539		0.546		139		8,640		2,610		11,389
	10/05/18	1-2	>350	21.2	48.8		<0.001		<0.005		<0.0025		0.561		0.561		149		6,190		2,000		8,339
	10/05/18	2-3	>350	15.0	50.7		0.000419	J	<0.005		<0.0025		0.0407		0.041		25.4		1,150		379		1,554
	10/05/18	3-4	>350	17.1	NA		<0.001		<0.005		<0.0025		<0.0065		<0.015		0.0786	J,T8	716		305		1,021
	10/05/18	4-5	>600	15.4	NA		<0.001		<0.005		0.0170	J	0.166		0.183		94.0		7,890		2,190		10,174

NOTES:

ft. Feet
 bgs Below ground surface
 mg/kg Milligrams per kilogram
 ppm Parts per million
 TPH Total Petroleum Hydrocarbons
 * Field screening measurement
 1 Method 300.0
 2 Method 8260B
 3 Method 8015M
 DRO Diesel Range Organics
 GRO Gasoline Range Organics
 ORO Oil Range Organics

Bold and italicized values exceed the proposed RRAL for the Site.

NA Not analyzed
 Q Qualifier
 B The same analyte is found in the associated blank.
 J The identification of the analyte is acceptable; the reported value is an estimate.
 J3 The associated batch QC was outside the established quality control range for precision.
 P1 RPD value not applicable.
 T8 Received past/close to hold time expiration.
 < Not detected above the Method Quantitation Limit (MQL).

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL SOIL ASSESSMENT - 1RP-4354
CONOCOPHILLIPS
MCA CO2 COMPRESSOR VENT LINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride ¹		BTEX ²					TPH ³											
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO ⁴		DRO		ORO		Total TPH (GRO+DRO+ORO)
			mg/kg	ppm	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
HS-1	9/15/2020	0-1	-	-	< 21.3		0.00222		0.00535	J	0.00122	J	0.00111	J	0.00990		1.83	BJ	6.00		12.2		20.0
		2-3	-	-	< 20.9		< 0.00109		< 0.00546		< 0.00273		< 0.00710		-		1.34	BJ	3.88	J	7.58		12.8
HS-2	9/15/2020	0-1	-	-	< 20.1		< 0.00103		< 0.00516		< 0.00258		< 0.00671		-		1.81	BJ	< 4.03		1.63	J	3.44
		2-3	-	-	< 21.1		< 0.00111		< 0.00556		< 0.00278		< 0.00723		-		1.45	BJ	2.85	J	3.14	J	7.44
HS-3	9/15/2020	0-1	-	-	< 24.3		< 0.00146		< 0.00728		< 0.00364		< 0.00947		-		1.66	BJ	< 4.86		< 4.86		1.66
		2-3	-	-	< 24.4		< 0.00148		< 0.00740		< 0.00370		< 0.00963		-		< 3.70		< 4.88		< 4.88		-
HS-4	9/15/2020	0-1	-	-	< 24.2		< 0.00150		< 0.00750		< 0.00375		< 0.00975		-		< 3.75		< 4.84		2.37	J	2.37
		2-3	-	-	< 24.5		< 0.00147		< 0.00736		< 0.00368		< 0.00957		-		1.13	J	< 4.90		1.08	J	2.21
HS-5	9/15/2020	0-1	-	-	< 24.6		< 0.00153		< 0.00765		< 0.00382		< 0.00994		-		< 3.82		< 4.92		< 4.92		-
		2-3	-	-	< 20.8		< 0.00108		< 0.00539		< 0.00270		< 0.00701		-		< 2.70		2.08	J	0.777	J	2.86
HS-6	9/15/2020	0-1	-	-	< 21.0		< 0.00110		< 0.00549		< 0.00275		< 0.00714		-		< 2.75		< 4.20		< 4.20		-
		2-3	-	-	< 23.4		< 0.00134		< 0.00668		< 0.00334		< 0.00868		-		< 3.34		< 4.67		< 4.67		-
TS-1	9/15/2020	0-1	-	129	< 20.1		0.0218		0.0869		0.392		0.457		0.958		6.68		11200		6430		17637
		2-3	-	-	< 21.5		0.0214		0.00280	J	0.0206		0.211		0.256		9.16		2700		2830		5539
		4-5	-	1801	< 23.5		8.42		13.4		138		175		335		4730		17200		6370		28300
		7-8	-	2030	< 22.1		3.76		72.2		98.4		153		327		3900		11500		4200		19600
		9-10	-	-	< 22.3		3.99		73.8		98.4		144		320		3580		10600		3720		17900
		13-14	-	1849	< 22.1		0.0276	J	0.167		0.244		18.9		19.3		866		5410		2220		8496
TS-2	9/15/2020	0-1	-	-	< 20.2		< 0.00852		< 0.0426		< 0.0213		0.0378	J	0.0378		46.1		9760		4640		14446
		2-3	-	-	< 20.1		0.00301	J	< 0.0215		0.00505	J	0.0132	J	0.0213		23.7		8870		4740		13634
		4-5	-	-	< 20.3		0.00240	J	0.00634	J	0.00644	J	0.0107	J	0.0259		128		9820		5110		15058
		7-8	-	598	32.8		0.000797	J	< 0.00759		< 0.00380		0.00209	J	0.00289		3.23	J	7.55		5.43		16.2
		9-10	-	481	19.9	J	< 0.00200		< 0.0100		< 0.00501		0.00200	J	0.00200		2.66	BJ	3.58	J	1.98	J	8.22
		11-12	-	450	44.7		< 0.00109		< 0.00546		< 0.00273		< 0.00710		-		1.17	BJ	31.8		29.6		62.6
TS-3	9/15/2020	0-1	-	-	< 20.1		0.00116	J	0.00322	J	< 0.00507		0.00623	J	0.01061		6.53	B	9560		5140		14707
		2-3	-	-	< 22.7		< 0.0514		< 0.257		< 0.129		0.275	J	0.275		864		11400		5100		17364
		4-5	-	-	< 21.8		< 0.00118		< 0.00592		< 0.00296		< 0.00769		-		1.07	BJ	31.1		21.7		53.9
		7-8	-	480	< 21.0		< 0.00111		< 0.00555		< 0.00278		< 0.00722		-		1.32	BJ	2.60	J	2.65	J	6.57
		9-10	-	366	10.7	J	< 0.00133		< 0.00664		< 0.00331		< 0.00863		-		2.06	BJ	7.75		6.34		16.2
		11-12	-	412	20.0	J	< 0.00114		< 0.00571		< 0.00286		< 0.00743		-		1.30	BJ	7.66		4.71		13.7

NOTES:

- ft. Feet
- bgs Below ground surface
- ppm Parts per million
- mg/kg Milligrams per kilogram
- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics
- DRO Diesel range organics
- ORO Oil range organics

Shaded rows indicate intervals proposed for remediation.

Bold and italicized values indicate exceedance of proposed RRALS

- 1 EPA Method 300.0
- 2 EPA Method 8260B
- 3 EPA Method 8015
- 4 EPA Method 8015D/GRO

QUALIFIERS:

- B The same analyte is found in the associated blank.
- J The identification of the analyte is acceptable; the reported value is an estimate.



TABLE 4
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SIDEWALL SAMPLING - INCIDENT ID nJXK1620136648
MAVERICK PERMIAN, LLC
MCA CO2 COMPRESSOR VENT LINE RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth feet bgs	Chloride ¹ mg/kg Q		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) mg/kg
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
Reclamation Requirements (19.15.29 NMAC)			600		10							50							100		
SW-1	11/22/2023	0.0-16.0	<16.0		<0.050		<0.050		0.101		0.403		0.504		19.5		383		50		453
SW-2	11/22/2023	0.0-16.0	<16.0		<0.050		<0.050		0.077		0.907		0.984		223		7170		980		8,373
SW-2	11/29/2023	0.0-18.0	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW-3	11/22/2023	0.0-16.0	<16.0		<0.050		<0.050		0.326		3.7		4.03		141		1800		255		2,196
SW-4	11/22/2023	0.0-16.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		22.6		<10.0		43
SW-5	11/22/2023	0.0-6.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW-6	11/22/2023	0.0-6.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW-7	11/29/2023	0.0-6.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW-8	11/29/2023	0.0-6.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW-9	11/29/2023	0.0-6.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW-10	12/5/2023	0.0-6.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW-11	12/5/2023	0.0-6.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		16.8		<10.0		37
SW-12	12/5/2023	0.0-6.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW-13	12/5/2023	0.0-6.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		223		62.9		296
	12/11/2023	0.0-6.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW-14	12/5/2023	0.0-6.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW-15	12/5/2023	0.0-6.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW-16	12/5/2023	0.0-6.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
SW-17	12/5/2023	0.0-6.0	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30

NOTES:

bgs: Below ground surface

GRO: Gasoline Range Organics

1: Method SM4500Cl-B

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

mg/kg: Milligrams per kilogram

DRO: Diesel Range Organics

2: Method 8021B

Area where Sample was collected was overexcavated to achieve clean margins

TPH: Total Petroleum Hydrocarbons

ORO: Oil Range Organics

3: Method 8015M

TABLE 5
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION FLOOR SAMPLING - INCIDENT ID nJXK1620136648
MAVERICK PERMIAN, LLC
MCA CO2 COMPRESSOR VENT LINE 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 (GRO+DRO+EXT DRO)
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	
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		
RRALs (Table I 19.15.29.12 NMAC)			10,000		10								50							2,500.0	
BH-1 (16')	11/22/2023	16.0-16.5	<16.0		<0.050		<0.050		0.100		0.395		0.456		50.6		2300		424		2,774.6
BH-1 (18')	11/29/2023	18.0-18.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH-2 (16')	11/22/2023	16.0-16.5	576		<0.050		<0.050		<0.050		<0.150		<0.300		33.8		2190		428		2,651.8
BH-2 (18')	11/29/2023	18.0-18.5	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH-3 (16')	11/22/2023	16.0-16.5	<16.0		<0.050		<0.050		0.058		<0.150		<0.300		47.4		2600		429		3,076.0
BH-3 (18')	11/29/2023	18.0-18.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH-4 (16')	11/22/2023	16.0-16.5	<16.0		<0.050		<0.050		0.455		1.03		1.48		77.7		1390		254		1,721.7
BH-5 (16')	11/22/2023	16.0-16.5	<16.0		<0.050		<0.050		0.654		1.44		2.09		79.7		1380		254		1,713.7
BH-6 (6')	11/22/2023	6.0-6.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30
BH-7 (6')	11/22/2023	6.0-6.5	3,520		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		26.1		<10.0		46.1
	11/29/2023	6.0-6.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		78.7		23.3		111.3
BH-8 (6')	11/29/2023	6.0-6.5	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		127		42.8		179.8
BH-9 (6')	11/29/2023	6.0-6.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		331		94.2		435.2
BH-10 (6')	11/29/2023	6.0-6.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		348		111		469.0
BH-11 (6')	11/29/2023	6.0-6.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		96.7		25.7		132.4
BH-12 (6')	11/29/2023	6.0-6.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		107		27.2		144.2
BH-13 (6')	11/29/2023	6.0-6.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		127		37.7		174.7
BH-14 (6')	12/5/2023	6.0-6.5	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		63.4		15.4		88.8
BH-15 (6')	12/5/2023	6.0-6.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		317		91.5		418.5
BH-16 (6')	12/5/2023	6.0-6.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		272		70.3		352.3
BH-17 (6')	12/5/2023	6.0-6.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		202		63.8		275.8
BH-18 (6')	12/5/2023	6.0-6.5	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		31.3		<10.0		51.3
BH-19 (6')	12/5/2023	6.0-6.5	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		300		72.8		382.8
BH-20 (6')	12/5/2023	6.0-6.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		118		32.2		160.2
BH-21 (6')	12/5/2023	6.0-6.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		158		41.9		209.9
BH-22 (6')	12/5/2023	6.0-6.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		215		50.6		275.6
BH-23 (6')	12/5/2023	6.0-6.5	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		218		77.4		305.4

NOTES:

bgs: Below ground surface GRO: Gasoline Range Organics 1: Method SM4500CI-B
 mg/kg: Milligrams per kilogram DRO: Diesel Range Organics 2: Method 8021B
 TPH: Total Petroleum Hydrocarbons ORO: Oil Range Organics 3: Method 8015M
 NA: Not Analyzed

Bold and highlighted values indicate exceedance of Table I 19.15.29.12 NMAC.

Remediation and Closure Report
Maverick Permian, LLC
MCA CO₂ Compressor Vent Line Release
Incident ID: nJK1620136648

January 31, 2024

ATTACHMENT 1 – C-141 FORMS

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

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

RECEIVED
By JKeyes at 10:16 am, Jul 19, 2016

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: ConocoPhillips	Contact: Jose A Zepeda
Address: 29 Vacuum Complex Lane	Telephone No. 575-391-3165
Facility Name: MCA CO2 Compressor	Facility Type: Vent Line

Surface Owner: BLM	Mineral Owner: N/A	API No. 30-025-00608 Closest Well
---------------------------	---------------------------	--

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	21	17S	32E					Eddy Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 45	Volume Recovered: 40
Source of Release: Vent Line	Date and Hour of Occurrence 07/18/2016 1000	Date and Hour of Discovery SAME
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jamie Keyes	
By Whom? Jose A Zepeda	Date and Hour: 07/19/16 0930 via email	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken. *

On July 18, 2016 at 1000 MDT at MCA CO2 Compressor a leak was found on a vent line resulting in a release of 45 bbls of Oil with 40 bbls recovered. Immediate action was to shut in line and work order submitted for repairs. Spill site will be remediated according to COPC and NMOCD guidelines.

Describe Area Affected and Cleanup Action Taken. *

Pasture area 20' X 20' X 8" deep.

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

OIL CONSERVATION DIVISION

Signature: <i>JOSE A ZEPEDA</i>	Approved by Environmental Specialist: <i>Jamie Keyes</i>	
Printed Name: Jose A Zepeda	Approval Date: 07/19/2016	Expiration Date: 09/19/2016
Title: LEAD HSE	Conditions of Approval: Discrete samples only. Delineate and remediate per NMOCD guidelines. Ensure BLM concurrence/ approval.	
E-mail Address: Jose. A. Zepeda@conocophillips.com	Attached <input type="checkbox"/> IRP 4354	
Date: 07/19/2016 Phone: 575-391-3165	nJXK1620136648 pJXK1620136955	

* Attach Additional Sheets If Necessary

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature:  _____ Date: _____

email: _____ Telephone: _____

OCD Only

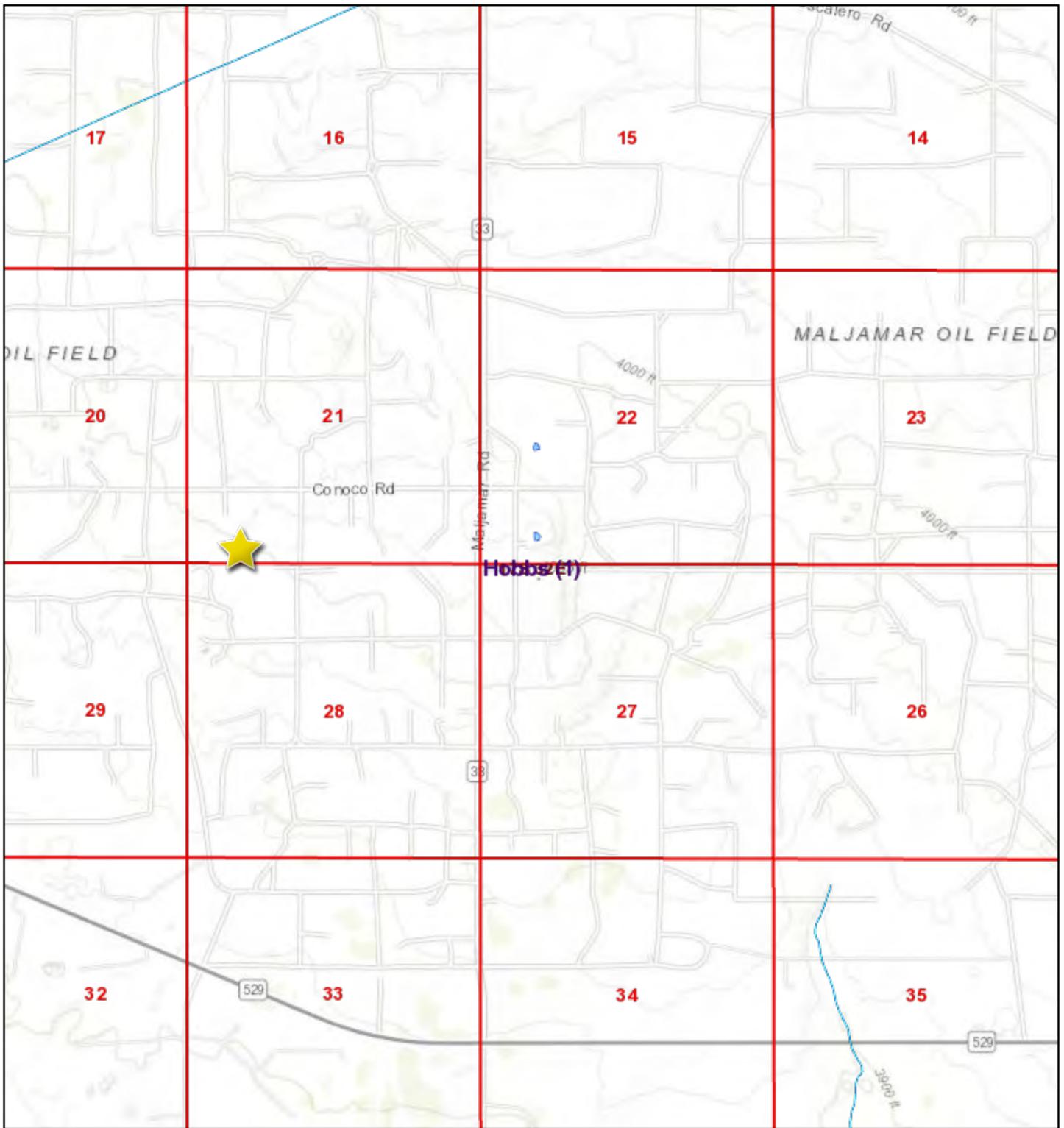
Received by: _____ Date: _____

Remediation and Closure Report
Maverick Permian, LLC
MCA CO₂ Compressor Vent Line Release
Incident ID: nJK1620136648

January 31, 2024

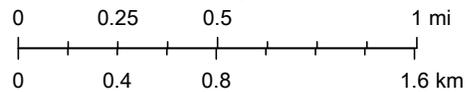
ATTACHMENT 2 – SITE CHARACTERIZATION DATA

Water Bodies



2/20/2020, 10:27:40 AM

1:36,112



-  MCA CO2 Compressor
-  PLSS Second Division
-  OCD Districts
-  PLSS Townships
-  OCD District Offices
-  OSE Water-bodies
-  PLSS First Division
-  PLJV Probable Playas
-  OSE Streams

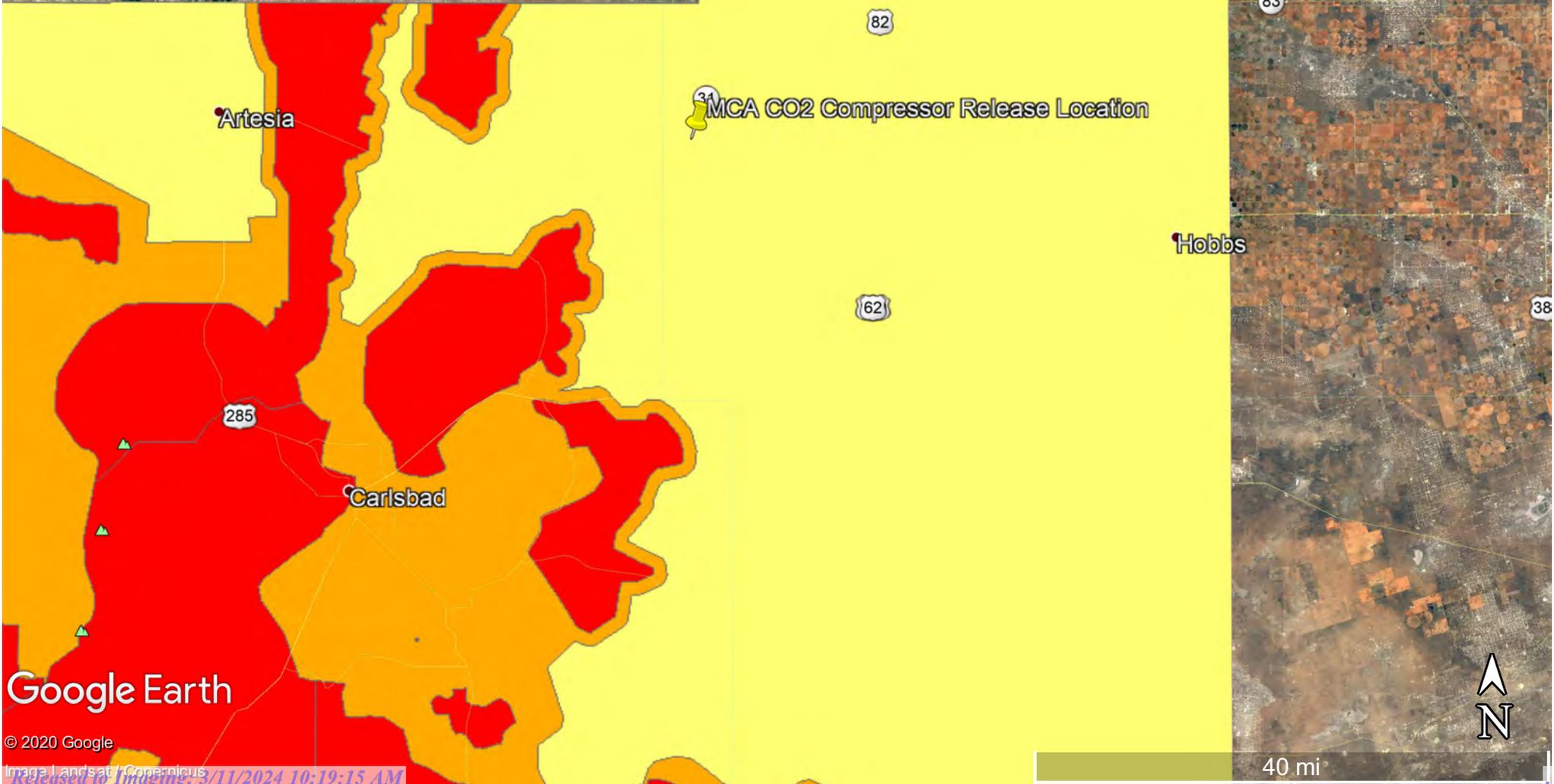
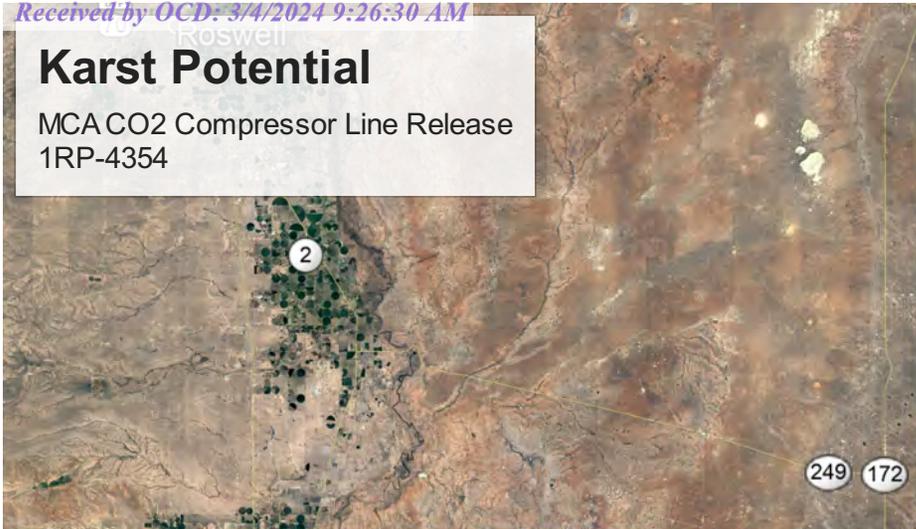
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community, OCD, BLM

Karst Potential

MCA CO2 Compressor Line Release
1RP-4354

Legend

-  High
-  Low
-  Release Location - MCA CO2 Compressor
-  Medium



Google Earth

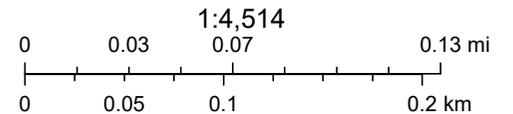
© 2020 Google

MICA CO2 Compressor Vent Line Release Site Characterization Map



12/18/2023, 8:05:21 AM

- █ Override 1
- OSE Water PODs
- Wells - Large Scale
- Miscellaneous
- Injection, Active
- Oil, Active
- Oil, Cancelled
- Oil, Plugged
- Karst Occurrence Potential
- Low
- PLSS Second Division
- PLSS First Division



BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., OCD, Esri, HERE, Garmin, IPC, Maxar, BLM

Soil Map—Lea County, New Mexico (MCA CO2 Compressor Vent Line Release Soil Map)



Map Scale: 1:5,840 if printed on A landscape (11" x 8.5") sheet.

0 50 100 200 300 Meters

0 250 500 1000 1500 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

12/18/2023
Page 1 of 3

Soil Map—Lea County, New Mexico
(MCA CO2 Compressor Vent Line Release Soil Map)

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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KM	Kermit soils and Dune land, 0 to 12 percent slopes	156.0	95.8%
MF	Maljamar and Palomas fine sands, 0 to 3 percent slopes	6.8	4.2%
Totals for Area of Interest		162.8	100.0%



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 12042 POD1	RA	LE		2	2	1	28	17S	32E	614891	3631181	404	400		
RA 10175	RA	LE			2	1	28	17S	32E	614814	3631005*	422	158		
RA 12020 POD1	RA	LE		2	2	1	28	17S	32E	614828	3630954	467	120	81	39
RA 12522 POD1	RA	LE		3	3	4	21	17S	32E	614941	3631122	469	100		
RA 12522 POD2	RA	LE		2	2	1	28	17S	32E	614949	3631098	486	100		
RA 12522 POD3	RA	LE		4	4	3	28	17S	32E	614980	3631093	517	100		
RA 12521 POD1	RA	LE		3	3	4	21	17S	32E	615127	3631271	625	105	92	13
RA 12020 POD3	RA	LE		2	1	2	28	17S	32E	615152	3631019	704	112	83	29

Average Depth to Water: **85 feet**
 Minimum Depth: **81 feet**
 Maximum Depth: **92 feet**

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 614501.453

Northing (Y): 3631289.451

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.

Remediation and Closure Report
Maverick Permian, LLC
MCA CO₂ Compressor Vent Line Release
Incident ID: nJXK1620136648

January 31, 2024

ATTACHMENT 3 – LABORATORY ANALYTICAL DATA



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

November 27, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA CO2 COMPRESSOR

Enclosed are the results of analyses for samples received by the laboratory on 11/22/23 12:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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:	11/22/2023	Sampling Date:	11/22/2023
Reported:	11/27/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 1 (16') (H236372-01)

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	11/23/2023	ND	1.95	97.3	2.00	2.47		
Toluene*	<0.050	0.050	11/23/2023	ND	2.07	104	2.00	2.88		
Ethylbenzene*	0.100	0.050	11/23/2023	ND	2.08	104	2.00	2.10		
Total Xylenes*	0.395	0.150	11/23/2023	ND	6.28	105	6.00	2.43	GC-NC1	
Total BTEX	0.496	0.300	11/23/2023	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/27/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	50.6	10.0	11/23/2023	ND	202	101	200	4.17			
DRO >C10-C28*	2300	10.0	11/23/2023	ND	189	94.5	200	3.41			
EXT DRO >C28-C36	424	10.0	11/23/2023	ND							

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 170 % 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



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:	11/22/2023	Sampling Date:	11/22/2023
Reported:	11/27/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 2 (16') (H236372-02)

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	11/23/2023	ND	1.95	97.3	2.00	2.47	
Toluene*	<0.050	0.050	11/23/2023	ND	2.07	104	2.00	2.88	
Ethylbenzene*	<0.050	0.050	11/23/2023	ND	2.08	104	2.00	2.10	
Total Xylenes*	<0.150	0.150	11/23/2023	ND	6.28	105	6.00	2.43	
Total BTEX	<0.300	0.300	11/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/27/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	33.8	10.0	11/23/2023	ND	202	101	200	4.17		
DRO >C10-C28*	2190	10.0	11/23/2023	ND	189	94.5	200	3.41		
EXT DRO >C28-C36	428	10.0	11/23/2023	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 169 % 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



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:	11/22/2023	Sampling Date:	11/22/2023
Reported:	11/27/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 3 (16') (H236372-03)

BTEX 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2023	ND	1.95	97.3	2.00	2.47	
Toluene*	<0.050	0.050	11/23/2023	ND	2.07	104	2.00	2.88	
Ethylbenzene*	0.058	0.050	11/23/2023	ND	2.08	104	2.00	2.10	
Total Xylenes*	<0.150	0.150	11/23/2023	ND	6.28	105	6.00	2.43	
Total BTEX	<0.300	0.300	11/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/27/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	47.4	10.0	11/23/2023	ND	202	101	200	4.17	
DRO >C10-C28*	2600	10.0	11/23/2023	ND	189	94.5	200	3.41	
EXT DRO >C28-C36	429	10.0	11/23/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 179 % 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



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:	11/22/2023	Sampling Date:	11/22/2023
Reported:	11/27/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 4 (16') (H236372-04)

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	11/23/2023	ND	1.95	97.3	2.00	2.47	
Toluene*	<0.050	0.050	11/23/2023	ND	2.07	104	2.00	2.88	
Ethylbenzene*	0.455	0.050	11/23/2023	ND	2.08	104	2.00	2.10	
Total Xylenes*	1.03	0.150	11/23/2023	ND	6.28	105	6.00	2.43	GC-NC1
Total BTEX	1.48	0.300	11/23/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/27/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	77.7	10.0	11/23/2023	ND	202	101	200	4.17	
DRO >C10-C28*	1390	10.0	11/23/2023	ND	189	94.5	200	3.41	
EXT DRO >C28-C36	254	10.0	11/23/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 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



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:	11/22/2023	Sampling Date:	11/22/2023
Reported:	11/27/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 5 (16') (H236372-05)

BTEX 8021B		mg/kg		Analyzed By: JH/				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2023	ND	1.95	97.3	2.00	2.47		
Toluene*	<0.050	0.050	11/23/2023	ND	2.07	104	2.00	2.88		
Ethylbenzene*	0.654	0.050	11/23/2023	ND	2.08	104	2.00	2.10		
Total Xylenes*	1.44	0.150	11/23/2023	ND	6.28	105	6.00	2.43	GC-NC1	
Total BTEX	2.09	0.300	11/23/2023	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 135 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/27/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	79.7	10.0	11/23/2023	ND	202	101	200	4.17	
DRO >C10-C28*	1380	10.0	11/23/2023	ND	189	94.5	200	3.41	
EXT DRO >C28-C36	254	10.0	11/23/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 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



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:	11/22/2023	Sampling Date:	11/22/2023
Reported:	11/27/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 1 (H236372-06)

BTEX 8021B		mg/kg		Analyzed By: JH/				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2023	ND	1.95	97.3	2.00	2.47		
Toluene*	<0.050	0.050	11/23/2023	ND	2.07	104	2.00	2.88		
Ethylbenzene*	0.101	0.050	11/23/2023	ND	2.08	104	2.00	2.10		
Total Xylenes*	0.403	0.150	11/23/2023	ND	6.28	105	6.00	2.43	GC-NC1	
Total BTEX	0.504	0.300	11/23/2023	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 136 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/27/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	19.5	10.0	11/23/2023	ND	202	101	200	4.17		
DRO >C10-C28*	383	10.0	11/23/2023	ND	189	94.5	200	3.41		
EXT DRO >C28-C36	50.0	10.0	11/23/2023	ND						

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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



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:	11/22/2023	Sampling Date:	11/22/2023
Reported:	11/27/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 2 (H236372-07)

BTEX 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2023	ND	1.95	97.3	2.00	2.47	
Toluene*	<0.050	0.050	11/23/2023	ND	2.07	104	2.00	2.88	
Ethylbenzene*	0.077	0.050	11/23/2023	ND	2.08	104	2.00	2.10	
Total Xylenes*	0.907	0.150	11/23/2023	ND	6.28	105	6.00	2.43	GC-NC1
Total BTEX	0.984	0.300	11/23/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 136 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/27/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	223	10.0	11/27/2023	ND	202	101	200	4.17	
DRO >C10-C28*	7170	10.0	11/27/2023	ND	189	94.5	200	3.41	
EXT DRO >C28-C36	980	10.0	11/27/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 153 % 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



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:	11/22/2023	Sampling Date:	11/22/2023
Reported:	11/27/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 3 (H236372-08)

BTEX 8021B		mg/kg		Analyzed By: JH/				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2023	ND	1.95	97.3	2.00	2.47		
Toluene*	<0.050	0.050	11/23/2023	ND	2.07	104	2.00	2.88		
Ethylbenzene*	0.326	0.050	11/23/2023	ND	2.08	104	2.00	2.10		
Total Xylenes*	3.70	0.150	11/23/2023	ND	6.28	105	6.00	2.43	GC-NC1	
Total BTEX	4.03	0.300	11/23/2023	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 139 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/27/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	141	10.0	11/27/2023	ND	202	101	200	4.17		
DRO >C10-C28*	1800	10.0	11/27/2023	ND	189	94.5	200	3.41		
EXT DRO >C28-C36	255	10.0	11/27/2023	ND						

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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



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:	11/22/2023	Sampling Date:	11/22/2023
Reported:	11/27/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 4 (H236372-09)

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	11/23/2023	ND	1.95	97.3	2.00	2.47	
Toluene*	<0.050	0.050	11/23/2023	ND	2.07	104	2.00	2.88	
Ethylbenzene*	<0.050	0.050	11/23/2023	ND	2.08	104	2.00	2.10	
Total Xylenes*	<0.150	0.150	11/23/2023	ND	6.28	105	6.00	2.43	
Total BTEX	<0.300	0.300	11/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/27/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2023	ND	202	101	200	4.17	
DRO >C10-C28*	22.6	10.0	11/27/2023	ND	189	94.5	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	11/27/2023	ND					

Surrogate: 1-Chlorooctane 74.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.3 % 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



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

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Custody Record



Tetra Tech, Inc.

901 W. Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: **Maverick** Site Manager: **Chuck Terhune**

Project Name: **MCA CO2 Compressor** (281) 755-8965

Project Location: **Lea County, NM** Project #: **chuck.terhune@tetratech.com**

Invoice to: **212C-MD-03287**

Receiving Laboratory: **chuck.terhune@tetratech.com**

Comments: **Cardinal Labs** Sampler Signature: **Miguel A. Flores**

SAMPLE IDENTIFICATION

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX				# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃		
1	BH-1 (16')	11/22/2023		X				X	
2	BH-2 (16')	11/22/2023		X				X	
3	BH-3 (16')	11/22/2023		X				X	
4	BH-4 (16')	11/22/2023		X				X	
5	BH-5 (16')	11/22/2023		X				X	
6	BH-5 (16')	11/22/2023		X				X	
7	SW-1	11/22/2023		X				X	
8	SW-2	11/22/2023		X				X	
9	SW-3	11/22/2023		X				X	
	SW-4	11/22/2023		X				X	

Requested by: **Chuck Terhune** Date: **11/22/23** Time: **12:42**
 Received by: **Yamona** Date: **11/22/23** Time: **1:30**

ANALYSIS REQUEST
(Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTEX 8021B	<input checked="" type="checkbox"/>	BTEX 8260B
<input checked="" type="checkbox"/>	TPH TX1005 (Ext to C35)	<input checked="" type="checkbox"/>	TPH 8015M (GRO - DRO - ORO)
<input checked="" type="checkbox"/>	PAH 8270C	<input checked="" type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg
<input checked="" type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	<input checked="" type="checkbox"/>	TCLP Volatiles
<input checked="" type="checkbox"/>	TCLP Semi Volatiles	<input checked="" type="checkbox"/>	RCI
<input checked="" type="checkbox"/>	GC/MS Vol. 8260B / 624	<input checked="" type="checkbox"/>	GC/MS Semi. Vol. 8270C/625
<input checked="" type="checkbox"/>	PCB's 8082 / 608	<input checked="" type="checkbox"/>	NORM
<input checked="" type="checkbox"/>	PLM (Asbestos)	<input checked="" type="checkbox"/>	Chloride
<input checked="" type="checkbox"/>	Chloride	<input checked="" type="checkbox"/>	Chloride Sulfate TDS
<input checked="" type="checkbox"/>	General Water Chemistry (see attached list)	<input checked="" type="checkbox"/>	Anion/Cation Balance
<input checked="" type="checkbox"/>	Hold		

LAB USE ONLY
 Sample Temperature: **5.4i**
 REMARKS: **Standard**
 RUSH: Same Day (24 hr) 48 hr 72 hr
 Rush Charges Authorized
 Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking # **#140**



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

November 29, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA CO2 COMPRESSOR

Enclosed are the results of analyses for samples received by the laboratory on 11/22/23 12:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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:	11/22/2023	Sampling Date:	11/22/2023
Reported:	11/29/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 6 (6') (H236373-01)

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	11/27/2023	ND	1.83	91.5	2.00	12.9		
Toluene*	<0.050	0.050	11/27/2023	ND	1.92	96.2	2.00	12.8		
Ethylbenzene*	<0.050	0.050	11/27/2023	ND	1.94	97.2	2.00	13.1		
Total Xylenes*	<0.150	0.150	11/27/2023	ND	5.84	97.3	6.00	12.7		
Total BTEX	<0.300	0.300	11/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/23/2023	ND	214	107	200	3.02		
DRO >C10-C28*	<10.0	10.0	11/23/2023	ND	219	110	200	4.84		
EXT DRO >C28-C36	<10.0	10.0	11/23/2023	ND						

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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



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:	11/22/2023	Sampling Date:	11/22/2023
Reported:	11/29/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 7 (6') (H236373-02)

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	11/27/2023	ND	1.83	91.5	2.00	12.9	
Toluene*	<0.050	0.050	11/27/2023	ND	1.92	96.2	2.00	12.8	
Ethylbenzene*	<0.050	0.050	11/27/2023	ND	1.94	97.2	2.00	13.1	
Total Xylenes*	<0.150	0.150	11/27/2023	ND	5.84	97.3	6.00	12.7	
Total BTEX	<0.300	0.300	11/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/27/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2023	ND	214	107	200	3.02	
DRO >C10-C28*	26.1	10.0	11/23/2023	ND	219	110	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	11/23/2023	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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



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:	11/22/2023	Sampling Date:	11/22/2023
Reported:	11/29/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 5 (H236373-03)

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	11/27/2023	ND	1.83	91.5	2.00	12.9	
Toluene*	<0.050	0.050	11/27/2023	ND	1.92	96.2	2.00	12.8	
Ethylbenzene*	<0.050	0.050	11/27/2023	ND	1.94	97.2	2.00	13.1	
Total Xylenes*	<0.150	0.150	11/27/2023	ND	5.84	97.3	6.00	12.7	
Total BTEX	<0.300	0.300	11/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/27/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2023	ND	214	107	200	3.02	
DRO >C10-C28*	<10.0	10.0	11/23/2023	ND	219	110	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	11/23/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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



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:	11/22/2023	Sampling Date:	11/22/2023
Reported:	11/29/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 6 (H236373-04)

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	11/27/2023	ND	1.83	91.5	2.00	12.9		
Toluene*	<0.050	0.050	11/27/2023	ND	1.92	96.2	2.00	12.8		
Ethylbenzene*	<0.050	0.050	11/27/2023	ND	1.94	97.2	2.00	13.1		
Total Xylenes*	<0.150	0.150	11/27/2023	ND	5.84	97.3	6.00	12.7		
Total BTEX	<0.300	0.300	11/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/23/2023	ND	214	107	200	3.02		
DRO >C10-C28*	<10.0	10.0	11/23/2023	ND	219	110	200	4.84		
EXT DRO >C28-C36	<10.0	10.0	11/23/2023	ND						

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 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



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

Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Custody Record



Tetra Tech, Inc.

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

Client Name: **Maverick** Site Manager: **Chuck Terhune**

Project Name: **MCA CO2 Compressor** (281) 755-8965

Project Location: **Lea County, NM** Project #: **chuck.terhune@tetratech.com**

Invoice to: **chuck.terhune@tetratech.com** 212C-MD-03287

Receiving Laboratory: **Cardinal Labs** Sampler Signature: **Miguel A. Flores**

Comments:

LAB # **H236573** (LAB USE ONLY)

SAMPLE IDENTIFICATION

LAB #	SAMPLE IDENTIFICATION	SAMPLING		MATRIX				PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		YEAR 2023	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			
1	BH-6 (6)		11/22/2023		X			X			X	
2	BH-7 (6)		11/22/2023		X			X			X	
3	SW-5		11/22/2023		X			X			X	
4	SW-6		11/22/2023		X			X			X	
			11/22/2023		X			X			X	
			11/22/2023		X			X			X	
			11/22/2023		X			X			X	
			11/22/2023		X			X			X	
			11/22/2023		X			X			X	
			11/22/2023		X			X			X	

Inquired by: **Chuck Terhune** Date: **11/22/23** Time: **12:42**

Inquired by: **Miguel A. Flores** Date: **11/22/2023** Time: **13:49**

Received by: **Miguel A. Flores** Date: **11/22/2023** Time: **13:49**

Received by: **Miguel A. Flores** Date: **11/22/2023** Time: **13:49**

ANALYSIS REQUEST (Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTEX 8021B	<input checked="" type="checkbox"/>	BTEX 8260B
<input checked="" type="checkbox"/>	TPH TX1005 (Ext to C35)	<input checked="" type="checkbox"/>	TPH 8015M (GRO - DRO - ORO)
<input checked="" type="checkbox"/>	PAH 8270C	<input checked="" type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg
<input checked="" type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	<input checked="" type="checkbox"/>	TCLP Volatiles
<input checked="" type="checkbox"/>	TCLP Semi Volatiles	<input checked="" type="checkbox"/>	RCI
<input checked="" type="checkbox"/>	GC/MS Vol. 8260B / 624	<input checked="" type="checkbox"/>	GC/MS Semi. Vol. 8270C/625
<input checked="" type="checkbox"/>	PCB's 8082 / 608	<input checked="" type="checkbox"/>	NORM
<input checked="" type="checkbox"/>	PLM (Asbestos)	<input checked="" type="checkbox"/>	Chloride
<input checked="" type="checkbox"/>	Chloride Sulfate TDS	<input checked="" type="checkbox"/>	General Water Chemistry (see attached list)
<input checked="" type="checkbox"/>	Anion/Cation Balance	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Hold	<input checked="" type="checkbox"/>	

LAB USE ONLY

REMARKS: Standard

Sample Temperature: **5.4**

Rush: Same Day 24 hr 48 hr 72 hr

Rush Changes Authorized

Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:



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

November 30, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA CO2 COMPRESSOR

Enclosed are the results of analyses for samples received by the laboratory on 11/29/23 15:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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:	11/29/2023	Sampling Date:	11/29/2023
Reported:	11/30/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 1 (18') (H236430-01)

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	11/29/2023	ND	1.83	91.7	2.00	6.82		
Toluene*	<0.050	0.050	11/29/2023	ND	1.93	96.5	2.00	6.06		
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	1.95	97.4	2.00	6.46		
Total Xylenes*	<0.150	0.150	11/29/2023	ND	5.95	99.2	6.00	6.25		
Total BTEX	<0.300	0.300	11/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	11/30/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	201	100	200	1.48		
DRO >C10-C28*	<10.0	10.0	11/29/2023	ND	190	95.1	200	2.49		
EXT DRO >C28-C36	<10.0	10.0	11/29/2023	ND						

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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



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:	11/29/2023	Sampling Date:	11/29/2023
Reported:	11/30/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 2 (18') (H236430-02)

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	11/29/2023	ND	1.83	91.7	2.00	6.82	
Toluene*	<0.050	0.050	11/29/2023	ND	1.93	96.5	2.00	6.06	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	1.95	97.4	2.00	6.46	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	5.95	99.2	6.00	6.25	
Total BTEX	<0.300	0.300	11/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/30/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	201	100	200	1.48	
DRO >C10-C28*	<10.0	10.0	11/29/2023	ND	190	95.1	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/29/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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



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:	11/29/2023	Sampling Date:	11/29/2023
Reported:	11/30/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 3 (18') (H236430-03)

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	11/29/2023	ND	1.83	91.7	2.00	6.82	
Toluene*	<0.050	0.050	11/29/2023	ND	1.93	96.5	2.00	6.06	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	1.95	97.4	2.00	6.46	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	5.95	99.2	6.00	6.25	
Total BTEX	<0.300	0.300	11/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/30/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	201	100	200	1.48	
DRO >C10-C28*	<10.0	10.0	11/29/2023	ND	190	95.1	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/29/2023	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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



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:	11/29/2023	Sampling Date:	11/29/2023
Reported:	11/30/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 2 (H236430-04)

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	11/29/2023	ND	1.83	91.7	2.00	6.82	
Toluene*	<0.050	0.050	11/29/2023	ND	1.93	96.5	2.00	6.06	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	1.95	97.4	2.00	6.46	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	5.95	99.2	6.00	6.25	
Total BTEX	<0.300	0.300	11/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/30/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	201	100	200	1.48	
DRO >C10-C28*	<10.0	10.0	11/29/2023	ND	190	95.1	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/29/2023	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

December 04, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA CO2 COMPRESSOR

Enclosed are the results of analyses for samples received by the laboratory on 11/29/23 15:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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:	11/29/2023	Sampling Date:	11/29/2023
Reported:	12/04/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 7 (6') (H236431-01)

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	11/29/2023	ND	2.21	110	2.00	1.87	
Toluene*	<0.050	0.050	11/29/2023	ND	2.17	109	2.00	1.42	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	2.14	107	2.00	1.28	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	6.83	114	6.00	1.41	
Total BTEX	<0.300	0.300	11/29/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/30/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	201	100	200	1.48	
DRO >C10-C28*	78.7	10.0	11/29/2023	ND	190	95.1	200	2.49	
EXT DRO >C28-C36	23.3	10.0	11/29/2023	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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



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:	11/29/2023	Sampling Date:	11/29/2023
Reported:	12/04/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 8 (6') (H236431-02)

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	11/29/2023	ND	2.21	110	2.00	1.87	
Toluene*	<0.050	0.050	11/29/2023	ND	2.17	109	2.00	1.42	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	2.14	107	2.00	1.28	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	6.83	114	6.00	1.41	
Total BTEX	<0.300	0.300	11/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/30/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	201	100	200	1.48	
DRO >C10-C28*	127	10.0	11/29/2023	ND	190	95.1	200	2.49	
EXT DRO >C28-C36	42.8	10.0	11/29/2023	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 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



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:	11/29/2023	Sampling Date:	11/29/2023
Reported:	12/04/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 9 (6') (H236431-03)

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	11/29/2023	ND	2.21	110	2.00	1.87	
Toluene*	<0.050	0.050	11/29/2023	ND	2.17	109	2.00	1.42	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	2.14	107	2.00	1.28	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	6.83	114	6.00	1.41	
Total BTEX	<0.300	0.300	11/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/30/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	201	100	200	1.48	
DRO >C10-C28*	331	10.0	11/29/2023	ND	190	95.1	200	2.49	
EXT DRO >C28-C36	94.2	10.0	11/29/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 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



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:	11/29/2023	Sampling Date:	11/29/2023
Reported:	12/04/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 10 (6') (H236431-04)

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	11/29/2023	ND	2.21	110	2.00	1.87		
Toluene*	<0.050	0.050	11/29/2023	ND	2.17	109	2.00	1.42		
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	2.14	107	2.00	1.28		
Total Xylenes*	<0.150	0.150	11/29/2023	ND	6.83	114	6.00	1.41		
Total BTEX	<0.300	0.300	11/29/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/30/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/30/2023	ND	201	100	200	1.48		
DRO >C10-C28*	348	10.0	11/30/2023	ND	190	95.1	200	2.49		
EXT DRO >C28-C36	111	10.0	11/30/2023	ND						

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 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



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:	11/29/2023	Sampling Date:	11/29/2023
Reported:	12/04/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 11 (6') (H236431-05)

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	11/29/2023	ND	2.21	110	2.00	1.87	
Toluene*	<0.050	0.050	11/29/2023	ND	2.17	109	2.00	1.42	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	2.14	107	2.00	1.28	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	6.83	114	6.00	1.41	
Total BTEX	<0.300	0.300	11/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/30/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2023	ND	201	100	200	1.48	
DRO >C10-C28*	96.7	10.0	11/30/2023	ND	190	95.1	200	2.49	
EXT DRO >C28-C36	25.7	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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



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:	11/29/2023	Sampling Date:	11/29/2023
Reported:	12/04/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 12 (6') (H236431-06)

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	11/29/2023	ND	2.21	110	2.00	1.87	
Toluene*	<0.050	0.050	11/29/2023	ND	2.17	109	2.00	1.42	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	2.14	107	2.00	1.28	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	6.83	114	6.00	1.41	
Total BTEX	<0.300	0.300	11/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/30/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2023	ND	201	100	200	1.48	
DRO >C10-C28*	107	10.0	11/30/2023	ND	190	95.1	200	2.49	
EXT DRO >C28-C36	27.2	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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



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:	11/29/2023	Sampling Date:	11/29/2023
Reported:	12/04/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 13 (6') (H236431-07)

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	11/29/2023	ND	2.21	110	2.00	1.87		
Toluene*	<0.050	0.050	11/29/2023	ND	2.17	109	2.00	1.42		
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	2.14	107	2.00	1.28		
Total Xylenes*	<0.150	0.150	11/29/2023	ND	6.83	114	6.00	1.41		
Total BTEX	<0.300	0.300	11/29/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/30/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/30/2023	ND	201	100	200	1.48		
DRO >C10-C28*	127	10.0	11/30/2023	ND	190	95.1	200	2.49		
EXT DRO >C28-C36	37.7	10.0	11/30/2023	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 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



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:	11/29/2023	Sampling Date:	11/29/2023
Reported:	12/04/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 7 (H236431-08)

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	11/29/2023	ND	2.21	110	2.00	1.87	
Toluene*	<0.050	0.050	11/29/2023	ND	2.17	109	2.00	1.42	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	2.14	107	2.00	1.28	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	6.83	114	6.00	1.41	
Total BTEX	<0.300	0.300	11/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/30/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2023	ND	201	100	200	1.48	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	190	95.1	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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



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:	11/29/2023	Sampling Date:	11/29/2023
Reported:	12/04/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 8 (H236431-09)

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	11/29/2023	ND	2.21	110	2.00	1.87	
Toluene*	<0.050	0.050	11/29/2023	ND	2.17	109	2.00	1.42	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	2.14	107	2.00	1.28	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	6.83	114	6.00	1.41	
Total BTEX	<0.300	0.300	11/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/30/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2023	ND	201	100	200	1.48	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	190	95.1	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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



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:	11/29/2023	Sampling Date:	11/29/2023
Reported:	12/04/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 9 (H236431-10)

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	11/29/2023	ND	2.21	110	2.00	1.87	
Toluene*	<0.050	0.050	11/29/2023	ND	2.17	109	2.00	1.42	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	2.14	107	2.00	1.28	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	6.83	114	6.00	1.41	
Total BTEX	<0.300	0.300	11/29/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/30/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2023	ND	201	100	200	1.48	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	190	95.1	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Analysis Request of Custody Record



Tetra Tech, Inc.

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

Client Name: **Maverick** Site Manager: **Chuck Terhune**

Project Name: **MCA CO2 Compressor** (281) 755-8965
Project #: **212C-MD-03287**
Chuck.Terhune@tetratech.com

Project Location: **Lea County, NM**

Invoice to: **chuck.terhune@tetratech.com**

Receiving Laboratory: **Cardinal Labs** Sampler Signature: **Miguel A. Flores**

Comments:

H2304131

LAB # **H2304131**

(LAB USE ONLY)

SAMPLE IDENTIFICATION

LAB #	DATE	TIME	MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
			WATER	SOIL	HCL	HNO ₃	ICE		
1	BH-7 (6)	11/29/2023	X	X	X	X	X	X	X
2	BH-8 (6)	11/29/2023	X	X	X	X	X	X	X
3	BH-9 (6)	11/29/2023	X	X	X	X	X	X	X
4	BH-10 (6)	11/29/2023	X	X	X	X	X	X	X
5	BH-11 (6)	11/29/2023	X	X	X	X	X	X	X
6	BH-12 (6)	11/29/2023	X	X	X	X	X	X	X
7	BH-13 (6)	11/29/2023	X	X	X	X	X	X	X
8	SW-7	11/29/2023	X	X	X	X	X	X	X
9	SW-8	11/29/2023	X	X	X	X	X	X	X
10	SW-9	11/29/2023	X	X	X	X	X	X	X

Relinquished by: **Miguel A Flores** Date: **11/29/23** Time: **15:00**

Received by: **DAVID** Date: **11-29-23** Time: **15:01**

Relinquished by: _____ Date: _____ Time: _____

ANALYSIS REQUEST
(Circle or Specify Method No.)

BTEX 8021B BTEX 8260B

TPH TX1005 (Ext to C35)

TPH 8015M (GRO - DRO - ORO)

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

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Hold

LAB USE ONLY

Sample Temperature **34°C**

REMARKS: **Standard**

RUSH: Same Day 24 hr 48 hr **72 hr**

Rush Charges Authorized

Special Report Limits or TRRP Report

\$140

ORIGINAL COPY



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

December 07, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA CO2 COMPRESSOR

Enclosed are the results of analyses for samples received by the laboratory on 12/06/23 11:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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:	12/06/2023	Sampling Date:	12/05/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 14 (6.0') (H236535-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2023	ND	2.15	108	2.00	4.82	
Toluene*	<0.050	0.050	12/06/2023	ND	2.13	106	2.00	5.45	
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.10	105	2.00	5.67	
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.65	111	6.00	4.42	
Total BTEX	<0.300	0.300	12/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/07/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/06/2023	ND	198	98.8	200	0.682	
DRO >C10-C28*	63.4	10.0	12/06/2023	ND	184	92.1	200	3.07	
EXT DRO >C28-C36	15.4	10.0	12/06/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 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



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:	12/06/2023	Sampling Date:	12/05/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 15 (6.0') (H236535-02)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/06/2023	ND	2.15	108	2.00	4.82		
Toluene*	<0.050	0.050	12/06/2023	ND	2.13	106	2.00	5.45		
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.10	105	2.00	5.67		
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.65	111	6.00	4.42		
Total BTEX	<0.300	0.300	12/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/06/2023	ND	198	98.8	200	0.682		
DRO >C10-C28*	317	10.0	12/06/2023	ND	184	92.1	200	3.07		
EXT DRO >C28-C36	91.5	10.0	12/06/2023	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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



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:	12/06/2023	Sampling Date:	12/05/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 16 (6.0') (H236535-03)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/06/2023	ND	2.15	108	2.00	4.82		
Toluene*	<0.050	0.050	12/06/2023	ND	2.13	106	2.00	5.45		
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.10	105	2.00	5.67		
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.65	111	6.00	4.42		
Total BTEX	<0.300	0.300	12/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/06/2023	ND	198	98.8	200	0.682		
DRO >C10-C28*	272	10.0	12/06/2023	ND	184	92.1	200	3.07		
EXT DRO >C28-C36	70.3	10.0	12/06/2023	ND						

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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



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:	12/06/2023	Sampling Date:	12/05/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 17 (6.0') (H236535-04)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/06/2023	ND	2.15	108	2.00	4.82		
Toluene*	<0.050	0.050	12/06/2023	ND	2.13	106	2.00	5.45		
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.10	105	2.00	5.67		
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.65	111	6.00	4.42		
Total BTEX	<0.300	0.300	12/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/06/2023	ND	198	98.8	200	0.682		
DRO >C10-C28*	202	10.0	12/06/2023	ND	184	92.1	200	3.07		
EXT DRO >C28-C36	63.8	10.0	12/06/2023	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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



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:	12/06/2023	Sampling Date:	12/05/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 18 (6.0') (H236535-05)

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	12/06/2023	ND	2.15	108	2.00	4.82		
Toluene*	<0.050	0.050	12/06/2023	ND	2.13	106	2.00	5.45		
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.10	105	2.00	5.67		
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.65	111	6.00	4.42		
Total BTEX	<0.300	0.300	12/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/06/2023	ND	198	98.8	200	0.682		
DRO >C10-C28*	31.3	10.0	12/06/2023	ND	184	92.1	200	3.07		
EXT DRO >C28-C36	<10.0	10.0	12/06/2023	ND						

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 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



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:	12/06/2023	Sampling Date:	12/05/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 19 (6.0') (H236535-06)

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	12/06/2023	ND	2.15	108	2.00	4.82		
Toluene*	<0.050	0.050	12/06/2023	ND	2.13	106	2.00	5.45		
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.10	105	2.00	5.67		
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.65	111	6.00	4.42		
Total BTEX	<0.300	0.300	12/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/06/2023	ND	198	98.8	200	0.682		
DRO >C10-C28*	300	10.0	12/06/2023	ND	184	92.1	200	3.07		
EXT DRO >C28-C36	72.8	10.0	12/06/2023	ND						

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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



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:	12/06/2023	Sampling Date:	12/05/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 20 (6.0') (H236535-07)

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	12/06/2023	ND	2.15	108	2.00	4.82		
Toluene*	<0.050	0.050	12/06/2023	ND	2.13	106	2.00	5.45		
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.10	105	2.00	5.67		
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.65	111	6.00	4.42		
Total BTEX	<0.300	0.300	12/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/07/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/06/2023	ND	198	98.8	200	0.682		
DRO >C10-C28*	118	10.0	12/06/2023	ND	184	92.1	200	3.07		
EXT DRO >C28-C36	32.2	10.0	12/06/2023	ND						

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 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



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:	12/06/2023	Sampling Date:	12/05/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 21 (6.0') (H236535-09)

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	12/06/2023	ND	2.15	108	2.00	4.82		
Toluene*	<0.050	0.050	12/06/2023	ND	2.13	106	2.00	5.45		
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.10	105	2.00	5.67		
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.65	111	6.00	4.42		
Total BTEX	<0.300	0.300	12/06/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/06/2023	ND	198	98.8	200	0.682		
DRO >C10-C28*	158	10.0	12/06/2023	ND	184	92.1	200	3.07		
EXT DRO >C28-C36	41.9	10.0	12/06/2023	ND						

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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



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:	12/06/2023	Sampling Date:	12/05/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 22 (6.0') (H236535-10)

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	12/06/2023	ND	2.15	108	2.00	4.82		
Toluene*	<0.050	0.050	12/06/2023	ND	2.13	106	2.00	5.45		
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.10	105	2.00	5.67		
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.65	111	6.00	4.42		
Total BTEX	<0.300	0.300	12/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/06/2023	ND	198	98.8	200	0.682		
DRO >C10-C28*	215	10.0	12/06/2023	ND	184	92.1	200	3.07		
EXT DRO >C28-C36	50.6	10.0	12/06/2023	ND						

Surrogate: 1-Chlorooctane 89.1 % 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



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:	12/06/2023	Sampling Date:	12/05/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: BH - 23 (6.0') (H236535-11)

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	12/06/2023	ND	2.15	108	2.00	4.82		
Toluene*	<0.050	0.050	12/06/2023	ND	2.13	106	2.00	5.45		
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.10	105	2.00	5.67		
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.65	111	6.00	4.42		
Total BTEX	<0.300	0.300	12/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/06/2023	ND	198	98.8	200	0.682		
DRO >C10-C28*	218	10.0	12/06/2023	ND	184	92.1	200	3.07		
EXT DRO >C28-C36	77.4	10.0	12/06/2023	ND						

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 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



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:	12/06/2023	Sampling Date:	12/05/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 10 (H236535-12)

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	12/06/2023	ND	2.15	108	2.00	4.82	
Toluene*	<0.050	0.050	12/06/2023	ND	2.13	106	2.00	5.45	
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.10	105	2.00	5.67	
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.65	111	6.00	4.42	
Total BTEX	<0.300	0.300	12/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/06/2023	ND	198	98.8	200	0.682	
DRO >C10-C28*	<10.0	10.0	12/06/2023	ND	184	92.1	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	12/06/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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



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:	12/06/2023	Sampling Date:	12/05/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 11 (H236535-13)

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	12/06/2023	ND	2.15	108	2.00	4.82	
Toluene*	<0.050	0.050	12/06/2023	ND	2.13	106	2.00	5.45	
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.10	105	2.00	5.67	
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.65	111	6.00	4.42	
Total BTEX	<0.300	0.300	12/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/06/2023	ND	198	98.8	200	0.682	
DRO >C10-C28*	16.8	10.0	12/06/2023	ND	184	92.1	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	12/06/2023	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 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



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:	12/06/2023	Sampling Date:	12/05/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 12 (H236535-14)

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	12/06/2023	ND	2.15	108	2.00	4.82		
Toluene*	<0.050	0.050	12/06/2023	ND	2.13	106	2.00	5.45		
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.10	105	2.00	5.67		
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.65	111	6.00	4.42		
Total BTEX	<0.300	0.300	12/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/06/2023	ND	198	98.8	200	0.682		
DRO >C10-C28*	<10.0	10.0	12/06/2023	ND	184	92.1	200	3.07		
EXT DRO >C28-C36	<10.0	10.0	12/06/2023	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 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



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:	12/06/2023	Sampling Date:	12/05/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 13 (H236535-15)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2023	ND	2.15	108	2.00	4.82	
Toluene*	<0.050	0.050	12/06/2023	ND	2.13	106	2.00	5.45	
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.10	105	2.00	5.67	
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.65	111	6.00	4.42	
Total BTEX	<0.300	0.300	12/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/06/2023	ND	198	98.8	200	0.682	
DRO >C10-C28*	223	10.0	12/06/2023	ND	184	92.1	200	3.07	
EXT DRO >C28-C36	62.9	10.0	12/06/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 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



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:	12/06/2023	Sampling Date:	12/05/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 14 (H236535-16)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/06/2023	ND	2.15	108	2.00	4.82		
Toluene*	<0.050	0.050	12/06/2023	ND	2.13	106	2.00	5.45		
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.10	105	2.00	5.67		
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.65	111	6.00	4.42		
Total BTEX	<0.300	0.300	12/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/06/2023	ND	198	98.8	200	0.682		
DRO >C10-C28*	<10.0	10.0	12/06/2023	ND	184	92.1	200	3.07		
EXT DRO >C28-C36	<10.0	10.0	12/06/2023	ND						

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 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



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:	12/06/2023	Sampling Date:	12/05/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 15 (H236535-17)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2023	ND	2.15	108	2.00	4.82	
Toluene*	<0.050	0.050	12/06/2023	ND	2.13	106	2.00	5.45	
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.10	105	2.00	5.67	
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.65	111	6.00	4.42	
Total BTEX	<0.300	0.300	12/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/06/2023	ND	198	98.8	200	0.682	
DRO >C10-C28*	<10.0	10.0	12/06/2023	ND	184	92.1	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	12/06/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 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



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:	12/06/2023	Sampling Date:	12/05/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 16 (H236535-18)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2023	ND	2.15	108	2.00	4.82	
Toluene*	<0.050	0.050	12/06/2023	ND	2.13	106	2.00	5.45	
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.10	105	2.00	5.67	
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.65	111	6.00	4.42	
Total BTEX	<0.300	0.300	12/06/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/07/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/06/2023	ND	198	98.8	200	0.682	
DRO >C10-C28*	<10.0	10.0	12/06/2023	ND	184	92.1	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	12/06/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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



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:	12/06/2023	Sampling Date:	12/05/2023
Reported:	12/07/2023	Sampling Type:	Soil
Project Name:	MCA CO2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03287	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 17 (H236535-19)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/06/2023	ND	2.15	108	2.00	4.82		
Toluene*	<0.050	0.050	12/06/2023	ND	2.13	106	2.00	5.45		
Ethylbenzene*	<0.050	0.050	12/06/2023	ND	2.10	105	2.00	5.67		
Total Xylenes*	<0.150	0.150	12/06/2023	ND	6.65	111	6.00	4.42		
Total BTEX	<0.300	0.300	12/06/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/07/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/06/2023	ND	198	98.8	200	0.682		
DRO >C10-C28*	<10.0	10.0	12/06/2023	ND	184	92.1	200	3.07		
EXT DRO >C28-C36	<10.0	10.0	12/06/2023	ND						

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 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



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 582-4559
Fax (432) 582-3946

Client Name: **Maverick Natural Resources** Site Manager: **Chuck Terhune**

Project Name: **MCA CO2 Compressor** Project #: **281-755-8965**

Project Location: **Lea County, NM** Project #: **212C-MD-03287**

Invoice to: **Attn: Chuck Terhune** Sampler Signature: **Jorge Fernandez**

Receiving Laboratory: **Cardinal Labs** Comments:

LAB # **H23653**

LAB USE ONLY

SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			
1 BH-14 (6.0')	12/5/2023		X					X		X
2 BH-15 (6.0')	12/5/2023		X					X		X
3 BH-16 (6.0')	12/5/2023		X					X		X
4 BH-17 (6.0')	12/5/2023		X					X		X
5 BH-18 (6.0')	12/5/2023		X					X		X
6 BH-19 (6.0')	12/5/2023		X					X		X
7 BH-20 (6.0')	12/5/2023		X					X		X
8 BH-20 (6.0')	12/5/2023		X					X		X
9 BH-21 (6.0')	12/5/2023		X					X		X
10 BH-22 (6.0')	12/5/2023		X					X		X

Relinquished by: **Jorge Fernandez** Date: **12-06-23** Time: **11:04**

Received by: **Jorge Fernandez** Date: **12-06-23** Time: **11:04**

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

ANALYSIS REQUEST
(Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTEX 8021B	BTEX 8260B
<input checked="" type="checkbox"/>	TPH TX1005 (Ext to C35)	
<input checked="" type="checkbox"/>	TPH 8015M (GRO - DRO - ORO - MRO)	
<input checked="" type="checkbox"/>	PAH 8270C	
<input checked="" type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg	
<input checked="" type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
<input checked="" type="checkbox"/>	TCLP Volatiles	
<input checked="" type="checkbox"/>	TCLP Semi Volatiles	
<input checked="" type="checkbox"/>	RCI	
<input checked="" type="checkbox"/>	GC/MS Vol. 8260B / 624	
<input checked="" type="checkbox"/>	GC/MS Semi. Vol. 8270C/625	
<input checked="" type="checkbox"/>	PCB's 8082 / 608	
<input checked="" type="checkbox"/>	NORM	
<input checked="" type="checkbox"/>	PLM (Asbestos)	
<input checked="" type="checkbox"/>	Chloride	
<input checked="" type="checkbox"/>	Chloride Sulfate TDS	
<input checked="" type="checkbox"/>	General Water Chemistry (see attached list)	
<input checked="" type="checkbox"/>	Anion/Cation Balance	
<input checked="" type="checkbox"/>	Hold	

LAB USE ONLY

Sample Temperature: **3.10c**

REMARKS: **Standard TAT**

RUSH: Same Day **24 hr** 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

#140

ORIGINAL COPY



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

December 12, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCA 2 COMPRESSOR

Enclosed are the results of analyses for samples received by the laboratory on 12/11/23 11:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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:	12/11/2023	Sampling Date:	12/11/2023
Reported:	12/12/2023	Sampling Type:	Soil
Project Name:	MCA 2 COMPRESSOR	Sampling Condition:	Cool & Intact
Project Number:	MAVERICK	Sample Received By:	Dionica Hinojos
Project Location:	LEA COUNTY, NM		

Sample ID: SW - 13 (H236598-01)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/11/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	12/11/2023	ND	2.13	106	2.00	1.53		
Ethylbenzene*	<0.050	0.050	12/11/2023	ND	2.18	109	2.00	2.19		
Total Xylenes*	<0.150	0.150	12/11/2023	ND	6.61	110	6.00	3.33		
Total BTEX	<0.300	0.300	12/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	12/12/2023	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	12/12/2023	ND	232	116	200	1.69		
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	217	109	200	8.76		
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND						

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 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



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

Notes and Definitions

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

Cardinal Laboratories

*=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.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Remediation and Closure Report
Maverick Permian, LLC
MCA CO₂ Compressor Vent Line Release
Incident ID: nJXK1620136648

January 31, 2024

ATTACHMENT 4 – PHOTOGRAPHIC DOCUMENTATION

N

NE

E

SE

0

30

60

90

120

150

☀ 69°E (T) LAT: 32.813529 LON: -103.777087 ±4m ▲ 1218m

Released to Imaging: 3/11/2024 10:19:15 AM

Received by OCD: 3/4/2024 9:26:30 AM



Site Remediation
Tetra Tech

Maverick- MGA CO2 Compressor
Dec 05 2023, 10:03:20 MST

Page 99 of 123

E

SE

S

SW

90

120

150

180

210

240

☀ 162°S (T) LAT: 32.813725 LON: -103.776853 ±3m ▲ 1220m

Released to Imaging: 3/11/2024 10:19:15 AM

Received by OCD: 3/4/2024 9:26:30 AM



S

180

SW

210

240

W

270

NW

300

330

☀ 259°W (T) LAT: 32.813857 LON: -103.777045 ±4m ▲ 1218m



Released to Imaging: 3/11/2024 10:19:15 AM

Received by OCD: 3/4/2024 9:26:30 AM

W

270

NW

330

N

0

NE

60

☉ 333°NW (T) LAT: 32.813725 LON: -103.776931 ±4m ▲ 1216m



Site Remediation
Tetra Tech

Maverick- MCA CO2 Compressor
Dec 05 2023, 10:07:47 MST

Released to Imaging: 3/11/2024 10:19:15 AM

Reviewed by OCD: 3/4/2024 9:26:50 AM

Page 102 of 123

NE

E

SE

S

60

90

20

150

180

☀ 118°SE (T) LAT: 32.813831 LON: -103.777072 ±4m ▲ 1221m



Released to Imaging: 3/11/2024 10:19:15 AM

Received by OCD: 3/4/2024 9:26:30 AM



☉ 152°SE (T) LAT: 32.814190 LON: -103.777337 ±4m ▲ 1222m



Site Remediation
Tetra Tech

Maverick - MCA CO2 Compressor
Dec 13 2023, 11:27:54 MST

90

120

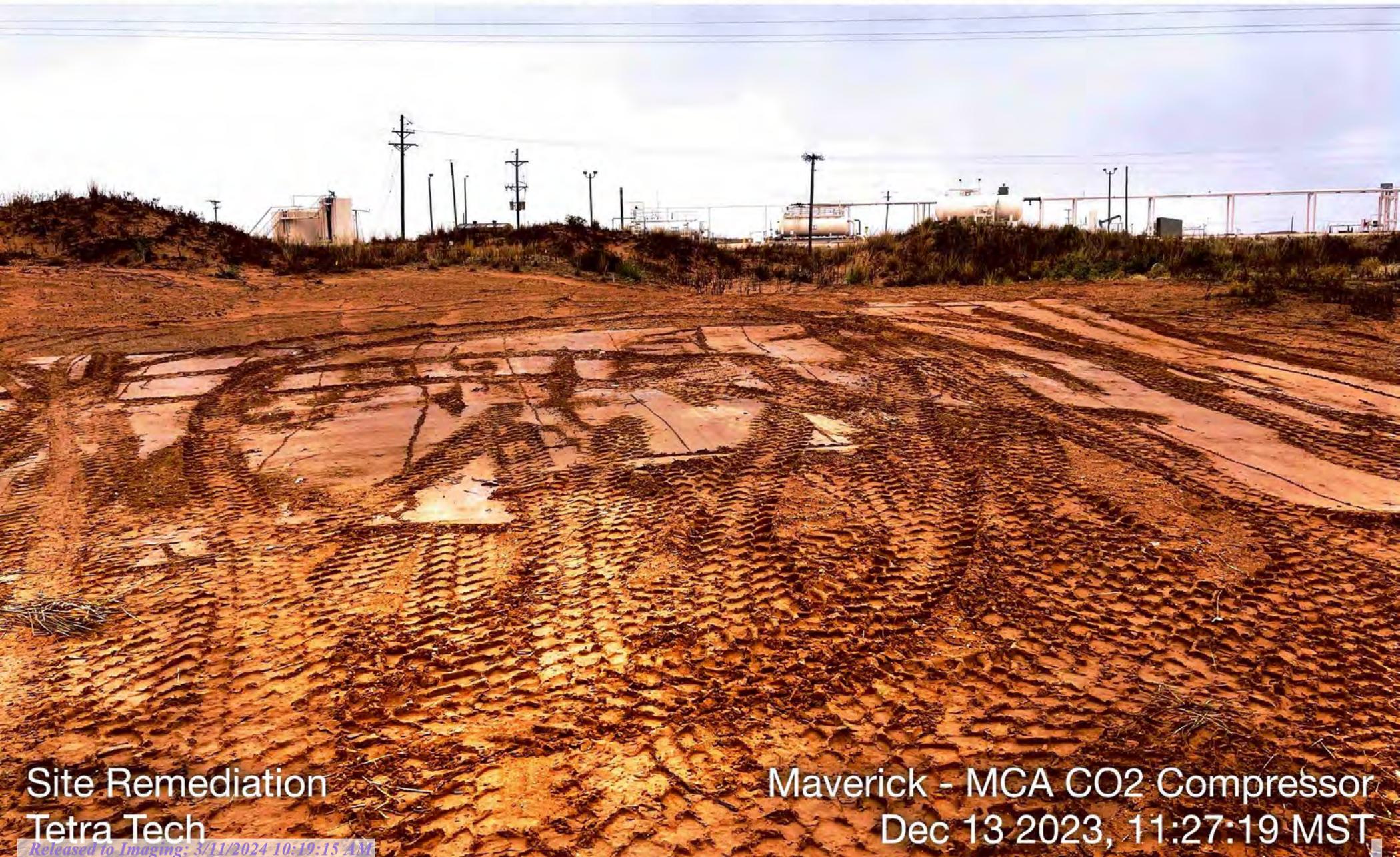
150

180

210

240

☀ 164°S (T) LAT: 32.813895 LON: -103.777073 ±4m ▲ 1221m



Site Remediation
Tetra Tech

Maverick - MCA CO2 Compressor
Dec 13 2023, 11:27:19 MST

SW

W

NW

N

240

270

300

330

0

30

☀ 310°NW (T) LAT: 32.813863 LON: -103.776931 ±4m ▲ 1220m



Site Remediation
Tetra Tech

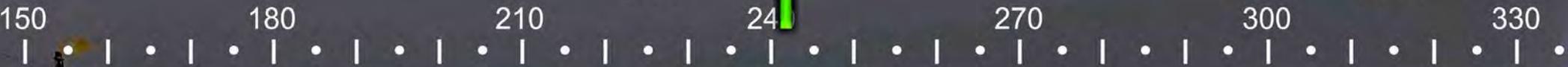
Maverick - MCA CO2 Compressor
Dec 13 2023, 11:27:07 MST



SW

W

NW



☉ 242°SW (T) LAT: 32.813867 LON: -103.776915 ±4m ▲ 1221m



Site Remediation
Tetra Tech

Maverick - MGA CO2 Compressor
Dec 13 2023, 11:27:02 MST

 **227°SW (T) LAT: 32.813804 LON: -103.776823 ±4m ▲ 1222m**



Site Remediation
Tetra Tech

Maverick - MCA CO2 Compressor
Dec 13 2023, 11:26:50 MST



☉ 182°S (T) LAT: 32.813807 LON: -103.776830 ±4m ▲ 1223m



Site Remediation
Tetra Tech

Maverick - MCA CO2 Compressor
Dec 13 2023, 11:26:46 MST

☉ 316°NW (T) **LAT: 32.813626 LON: -103.776766 ±4m ▲ 1222m**



Site Remediation
Tetra Tech

Maverick - MCA CO2 Compressor
Dec 13 2023, 11:26:28 MST

W

NW

N

NE

270

300

330

0

30

60

☀ 339°N (T) LAT: 32.813573 LON: -103.776811 ±4m ▲ 1221m



Site Remediation
Tetra Tech

Maverick - MCA CO2 Compressor
Dec 13 2023, 11:26:18 MST

SW

W

NW

N

210

240

270

300

330

0

3

☀ 295°NW (T) LAT: 32.813571 LON: -103.776808 ±4m ▲ 1222m



Site Remediation
Tetra Tech

Maverick - MCA CO2 Compressor
Dec 13 2023, 11:26:13 MST

N

NE

E

330

0

30

60

90

120

☀ 40°NE (T) LAT: 32.813488 LON: -103.777089 ±4m ▲ 1221m



Site Remediation
Tetra Tech

Maverick - MCA CO2 Compressor
Dec 13 2023, 11:25:48 MST

Remediation and Closure Report
Maverick Permian, LLC
MCA CO₂ Compressor Vent Line Release
Incident ID: nJXK1620136648

January 31, 2024

ATTACHMENT 5 – SEED MIXTURE DETAILS

NMSLO Seed Mix

Sandy (S)

SANDY (S) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sand bluestem	Elida, VNS, So.	2.0	F
Little bluestem	Cimarron, Pastura	3.0	F
Black grama	VNS, Southern	1.0	D
Sand dropseed	VNS, Southern	4.0	S
Plains bristlegrass	VNS, Southern	2.0	D
Forbs:			
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Annual Sunflower	VNS, Southern	1.0	D
Shrubs:			
Fourwing Saltbush	VNS, Southern	1.0	F
Total PLS/acre		16.0	

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>.



District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 319663

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 319663
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nJXK1620136648
Incident Name	NJXK1620136648 MCA CO2 COMPRESSOR @ 30-025-00608
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-00608] MCA UNIT #093

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	MCA CO2 COMPRESSOR
Date Release Discovered	07/19/2016
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Other (Specify) Crude Oil Released: 45 BBL Recovered: 40 BBL Lost: 5 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-9720

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

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

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 2

Action 319663

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 319663
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>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.</i>	

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 Email: chuck.terhune@tetrattech.com Date: 03/04/2024
--	--

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

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

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

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 319663
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 75 and 100 (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 ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 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
<i>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.</i>	
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)	85.1
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	13365
GRO+DRO	(EPA SW-846 Method 8015M)	10385
BTEX	(EPA SW-846 Method 8021B or 8260B)	143
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	11/09/2023
On what date will (or did) the final sampling or liner inspection occur	12/11/2023
On what date will (or was) the remediation complete(d)	12/12/2023
What is the estimated surface area (in square feet) that will be reclaimed	4750
What is the estimated volume (in cubic yards) that will be reclaimed	1556
What is the estimated surface area (in square feet) that will be remediated	4750
What is the estimated volume (in cubic yards) that will be remediated	1556

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.

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

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

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

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 4

Action 319663

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 319663
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	30-025-00608 MCA UNIT #093
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 Email: chuck.terhune@tetrattech.com Date: 03/04/2024
--	--

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.

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

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

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

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 5

Action 319663

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 319663
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 6

Action 319663

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 319663
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	292145
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/22/2023
What was the (estimated) number of samples that were to be gathered	22
What was the sampling surface area in square feet	4800

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
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	4750
What was the total volume (cubic yards) remediated	1556
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	4750
What was the total volume (in cubic yards) reclaimed	1556
Summarize any additional remediation activities not included by answers (above)	N/A

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 Email: chuck.terhune@tetrattech.com Date: 03/04/2024
--	--

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

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

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

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 7

Action 319663

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 319663
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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

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

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

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 319663

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 319663
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC	3/11/2024
crystal.walker	Closure Approved. The sampling notification 292145 for samples scheduled to be completed on 11/22/2023 was received. However, samples were also taken on 11/29/2023, 12/05/2023 and 12/11/2023 and no sampling notification was received for these confirmation sampling dates. "Failure to notify the OCD of sampling events including any changes in date/time per the requirement 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted."	3/11/2024