



December 18, 2024

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

**Re: Release Characterization and Remediation Work Plan  
ConocoPhillips  
Deckard Federal Com #002H Flowline Release  
Unit Letter C, Section 13, Township 24 South, and Range 33 East  
Lea County, New Mexico  
Incident ID NAPP2418342470  
Landowner: Private**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess and evaluate a release that occurred from a flowline associated with the Deckard Federal Com #002H (Facility ID fAPP2203454442). The release footprint is located in Public Land Survey System (PLSS) Unit Letter C, Section 13, Township 24 South, and Range 33 East, Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.224494° -103.528803°, as shown on Figures 1 and 2.

**BACKGROUND**

According to the State of New Mexico initial C-141 Form, the release was discovered on June 21, 2024. The release was caused by a corrosion on a subsurface production flow line. The initial C-141 reports that 3 barrels (bbls) of crude oil and 5 bbls of produced water were released, with no fluids recovered. The Initial C-141 Report was submitted to the NMOCD on July 1, 2024 and assigned the Incident ID NAPP2418342470. The initial C-141 is included as Appendix A.

According to the NMOCD Oil and Gas Map, the Site is located on private lands associated with Quail Ranch. Site remediation activities will be conducted in coordination with the landowner.

**SITE CHARACTERIZATION**

A site characterization was performed in accordance with 19.15.29.11 New Mexico State Administrative Code (NMAC) and the guidance document Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions (12/01/2023).

A summary of the site characterization is presented below:

<b>Shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (feet bgs)</b>	Between 100 ft and 500 ft
<b>Method used to determine the depth to ground water</b>	OCD Imaging Records Lookup
<b>Did this release impact groundwater or surface water?</b>	No

<b><u>What is the minimum distance between the closest lateral extents of the release and the following surface areas:</u></b>	
<b>A continuously flowing watercourse or any other significant watercourse</b>	Between 1 mi. and 5 mi.
<b>Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)</b>	Between 1 mi. and 5 mi.
<b>An occupied permanent residence, school, hospital, institution, or church</b>	Greater than 5 miles
<b>A spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes</b>	Between 1/2 mi. and 1 mi.
<b>Any other fresh water well or spring</b>	Between 1/2 mi. and 1 mi.
<b>Incorporated municipal boundaries or a defined municipal fresh water well field</b>	Greater than 5 miles
<b>A wetland</b>	Between 1/2 mi. and 1 mi.
<b>A subsurface mine</b>	Greater than 5 miles
<b>A (non-karst) unstable area</b>	Between 1 mi. and 5 mi.
<b>Categorized risk of this well / site being in a karst geology</b>	Low
<b>A 100-year floodplain</b>	Greater than 5 miles
<b>Did the release impact areas not on an exploration, development, production, or storage site?</b>	No

There are no water wells listed in the New Mexico Office of the State Engineer (NMOSE) database located within approximately 0.5 miles (800 meters) of the Site. There are two water wells with recent groundwater data located within approximately 0.8 miles (1,300 meters) from the Site with an average depth to water of 405 feet below ground surface (bgs).

Upon review of the OCD Imaging files, a well record & log for a groundwater determination boring located approximately 0.58 miles east-northeast of the release area was discovered in association with Incident ID # NAPP2403957544. This boring was drilled in June 2024 to a total depth of 105 feet bgs, with no groundwater encountered. Based on prior correspondence with the NMOCD, this boring is located within the discretionary limit to establish the depth to groundwater for the release site.

The site characterization data, including a copy of the groundwater determination boring, are presented in Appendix B.

## REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization (high karst) and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

<b>Constituent</b>	<b>Site RRALs</b>
<b>Chloride</b>	20,000 mg/kg
<b>Total TPH</b>	2,500 mg/kg
<b>BTEX</b>	50 mg/kg
<b>Benzene</b>	10 mg/kg

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

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

## INITIAL RESPONSE AND REMEDIAL ACTIVITIES

In accordance with 19.15.29.8. B. (4) NMAC that states “the responsible party may commence remediation immediately after discovery of a release,” ConocoPhillips elected to begin remediation of the impacted area in April 2024. Initial response remedial actions were performed at the release site, and visually stained areas were scraped to remove impacted materials (approximately 1700 square feet). The impacted material was scraped to approximately 12 inches below ground surface, resulting in approximately 200-300 cubic yards of material being removed and disposed of at a permitted facility. The initial response extent is indicated in Figure 3. Photographic documentation of the release and initial response activities is included in Appendix C.

## INITIAL SITE ASSESSMENT

Carmona Resources, LLC performed initial release assessment activities on behalf of ConocoPhillips. Of note, documentation provided by Carmona Resources, LLC identifies the Site as Deckard Fed Com 3H (rather than 2H, as documented with the NMOCD). According to photographic documentation provided by ConocoPhillips, the release occurred in pasture adjacent to the Deckard Fee 2H Battery facility (on a pad shared with the Deckard Federal Com #002H well / API 30-025-41382).

On July 11, 2024, three (3) auger holes (S-1 through S-3) were installed within the release extent using a hand auger to 8 feet below ground surface (bgs). Based on photograph evidence and the sampling dates, it appears that sampling and the initial response scrape occurred on the same day. It is apparent from the sampling depth intervals that soil samples were collected from after the scrape occurred. Six (6) horizontal delineation samples (H-1 through H-6) were collected from 0-0.5 feet bgs outside of the release footprint.

A total of thirty (30) soil samples were collected and sent to Cardinal to be analyzed for chloride via Standard Method 4500Cl-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D.

Analytical results are summarized in Table 1. The soil analytical results from the initial assessment exceeded the 19.15.29 NMAC Table I delineation criteria of 100 mg/kg for total TPH in all of the samples collected from sample locations S-1 through S-3. Analytical results exceeded the Table 1 delineation criteria of 50 mg/kg for BTEX and 600 mg/kg for chlorides in nearly all of the samples collected from these three borings. All of the horizontal delineation sampling results were below the Table 1 delineation criteria.

## ADDITIONAL SITE ASSESSMENT

On behalf of ConocoPhillips, Tetra Tech conducted additional soil assessment activities at the release Site to complete vertical delineation of the release. On September 26, 2024, Tetra Tech personnel oversaw the installation of four (4) borings (BH-1 through BH-4) using a direct push drill rig within the release extent. The boring locations are presented in Figure 3. Photographic documentation of the Site conditions during the additional assessment activities is included in Appendix C. Boring logs from the additional assessment activities are included in Appendix E.

A total of forty (40) soil samples were collected and sent to Cardinal to be analyzed for chloride via Standard Method 4500Cl-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D.

Analytical results are summarized in Table 1. Surface soils at all four boring locations exceeded the Site reclamation limits for chlorides, benzene, total BTEX, and/or total TPH. Subsurface soils exceeded the Site RRAL for benzene, total BTEX, and/or total TPH in all four locations at depths ranging from 5 feet bgs (BH-2) to 10 feet bgs (BH-1 and BH-4). Vertical delineation of the release was achieved following the additional assessment.

## SITE HAZARDS AND REMEDIATION SAFETY CONSIDERATIONS

Significant site safety hazards exist at the Site, which potentially impact the feasibility of safely completing the excavation of impacted soil on the Site. The release occurred immediately behind the tank battery in the pasture in a ConocoPhillips pipeline right-of-way, which contains three (3) subsurface steel pressurized production and gas lines (located approximately 4 feet bgs). The three lines along the right-of-way are approximately 10 feet apart. The center line, which was the source of the release, was placed out of service and the remaining two lines remain active. To access the impacted soils, the inactive center line will be cut and removed, which will leave approximately 20 feet between the remaining lines.

The subsurface soils at the Site consist of sand formation to a depth of approximately 9-13 feet below surface and transitions to a semi-dense formation (see Appendix E). ConocoPhillips will attempt to remove the impacted soils to a depth of 7 feet to 15 feet below surface. According to OSHA regulations and ConocoPhillips safety protocol, excavation areas which are greater than 4 feet in depth must be protected from cave-in by sloping or benching. Based on a review of the soil boring logs from the site assessment activities, the soils in the release extent are classified as Type C (non-cohesive), which require a maximum allowable slope of 1.5:1. Safety concerns at the Site include sloughing of the sandy soils at the edges of the excavation beneath the active production lines, not allowing us to brace the lines. ConocoPhillips will remove the impacted soil to the maximum extent practicable.

If the deeper excavation cannot be safely excavated or sloped, ConocoPhillips will explore options to prevent a cave-in or the destabilization of onsite equipment or lines. However, if these options are not viable, ConocoPhillips will consult with NMOCD for an alternative remediation option for a path forward for the remaining deeper impacted soils. The approximate proposed excavation depths and surrounding area for benching and sloping are indicated in Figure 4.

## REMEDIATION WORK PLAN

Based on the collected analytical results, and in consideration of the existing Site infrastructure, soils, and associated safety hazards discussed in the previous section, ConocoPhillips proposes to remove the impacted material as indicated on Figure 4.

The assessment indicates subsurface impacts in the release extent which exceeded the Site RRALs for benzene, total BTEX, and/or total TPH at depths in the upper 10 feet bgs in areas immediately under and around the shallow pressurized production lines. ConocoPhillips proposes to remove the impacted material to a depth of approximately 10 feet below ground surface or to the maximum extent practicable (or until a representative sample from the walls and bottom of the excavation is below the Site RRALs) in the area of BH-4. The areas of BH-1, BH-2, and BH-3 will be excavated to approximately 9 feet bgs. The surrounding areas between the production lines will be excavated to approximately 4 feet bgs and then sloped to the terminal depths along the center of the release extent, as indicated in Figure 4.

In the event that confirmation floor sampling results indicate exceedances of RRALs, and deeper excavation cannot be performed due to safety concerns, the NMOCD will be consulted to determine if in-situ treatment options (e.g. Microblaze) can be utilized at depth.

Heavy equipment (backhoe and mini-excavator) will be utilized to excavate areas outside the immediate vicinity of pressurized lines and will come no more than 2 feet from any pressurized lines. Any area within

2 feet of pressurized lines or vessels will be addressed with non-mechanical methods (hydro-excavation or hand dig) to a maximum depth of 2 feet bgs.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. The estimated volume of material to be remediated is approximately 380 cubic yards.

Confirmation bottom and sidewall samples representative of no more than 200 square feet will be collected for verification of remedial activities, and analyzed for TPH (Method 8015 modified), BTEX (Method 8021B), and chloride (Method SM4500Cl-B). The proposed excavation encompasses a surface area of approximately 2,125 square feet. Once results are received, the excavation will then be backfilled with clean material to surface grade.

The responsible party will notify the OCD two (2) business days prior to conducting final confirmation sampling pursuant to 19.15.29.12.D(1)(a) NMAC, using the Notification of Sampling (C-141N) application.

**SITE RECLAMATION AND MONITORING PLAN**

Reclamation activities will be implemented in consultation with the landowner. Based on 19.15.29.13 NMAC, all areas disturbed by the remediation and closure will be reclaimed once confirmation sampling results below the reclamation requirements (or RRALs, respectively, for areas below 4 feet bgs) are received. Once acceptable confirmation sample results are received, the excavation will be backfilled with clean material to pre-release grade. In accordance with 19.15.29.12 NMAC, the reclaimed area will contain a minimum of 4 feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as verified by analysis of backfill source material via Standard Method 4500Cl-B. The soil cover will include a top layer consisting of 1 foot of suitable material to establish vegetation at the Site.

The backfilled areas in the pasture will be seeded following backfilling, to aid in revegetation. Based on the soils at the Site, areas will be seeded with the BLM seed mixture for LPC Sand/Shinnery Sites and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

**CONCLUSION**

ConocoPhillips proposes to begin remediation activities at the Site within 120 days plan approval. Upon completion of the proposed work, a final report detailing the remediation and reclamation activities and the results of the confirmation sampling will be submitted to NMOCD.

If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (512) 739-7874 or email at sam.abbott@tetrattech.com.

Sincerely,  
**Tetra Tech, Inc.**



Samantha Abbott, P.G.  
Project Manager



Christian M. Llull, P.G.  
Program Manager

cc:  
Mr. Ike Tavarez, RMR – ConocoPhillips

## LIST OF ATTACHMENTS

### Figures:

- Figure 1 – Overview Map
- Figure 2 – Site Location/Topographic Map
- Figure 3 – Approximate Release Extent and Site Assessment
- Figure 4 – Proposed Remediation Extent

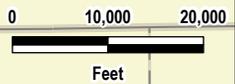
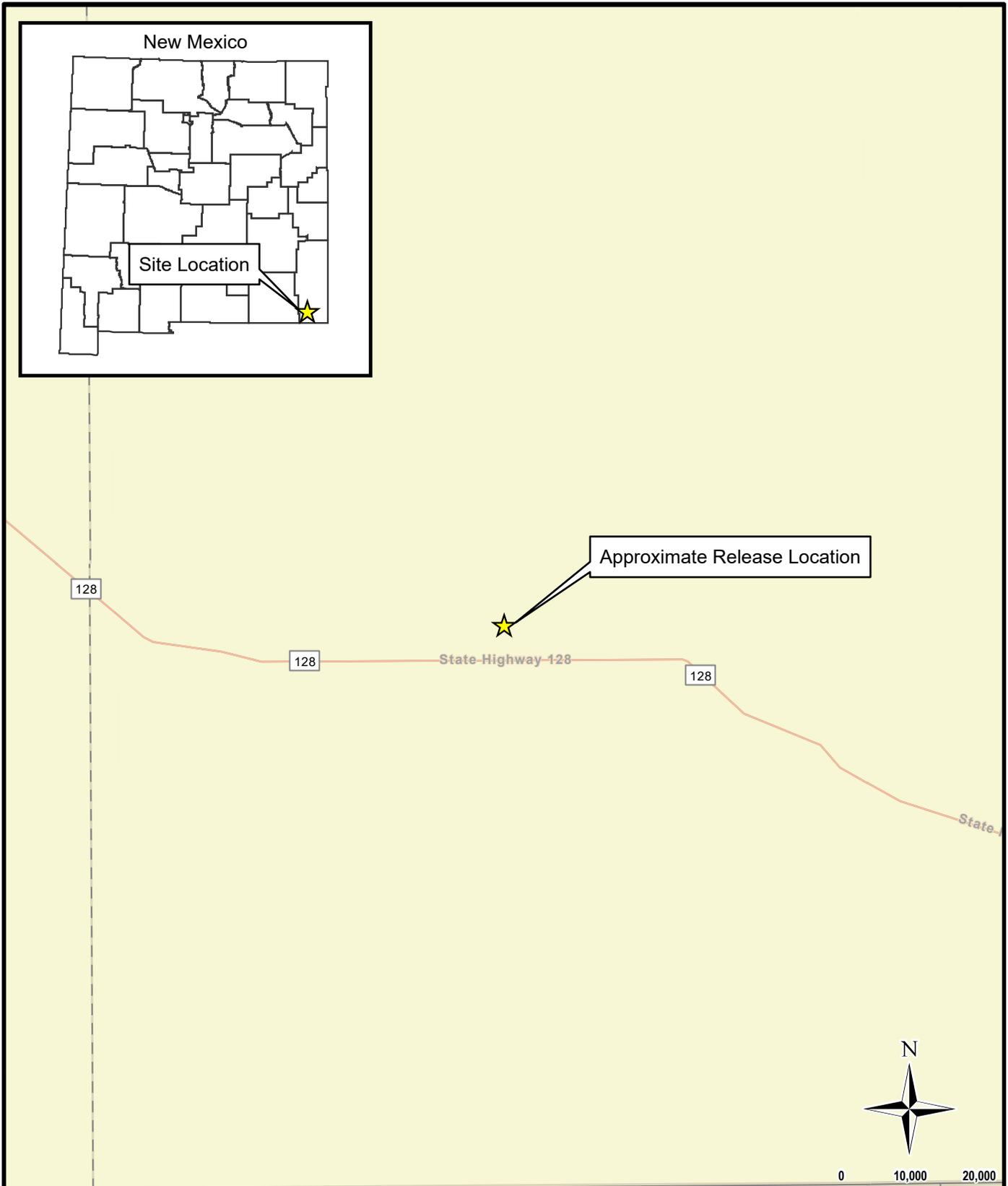
### Tables:

- Table 1 – Summary of Analytical Results – Soil Assessment

### Appendices:

- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Photographic Documentation
- Appendix D – Laboratory Analytical Results
- Appendix E – Boring Logs

# **FIGURES**



Source: Esri World Street, 2024.

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

CONOCOPHILLIPS

NAPP2418342470  
 (32.224494° -103.528803°)  
 LEA COUNTY, NEW MEXICO

**DECKARD FEDERAL COM #002H FLOWLINE RELEASE  
 OVERVIEW MAP**

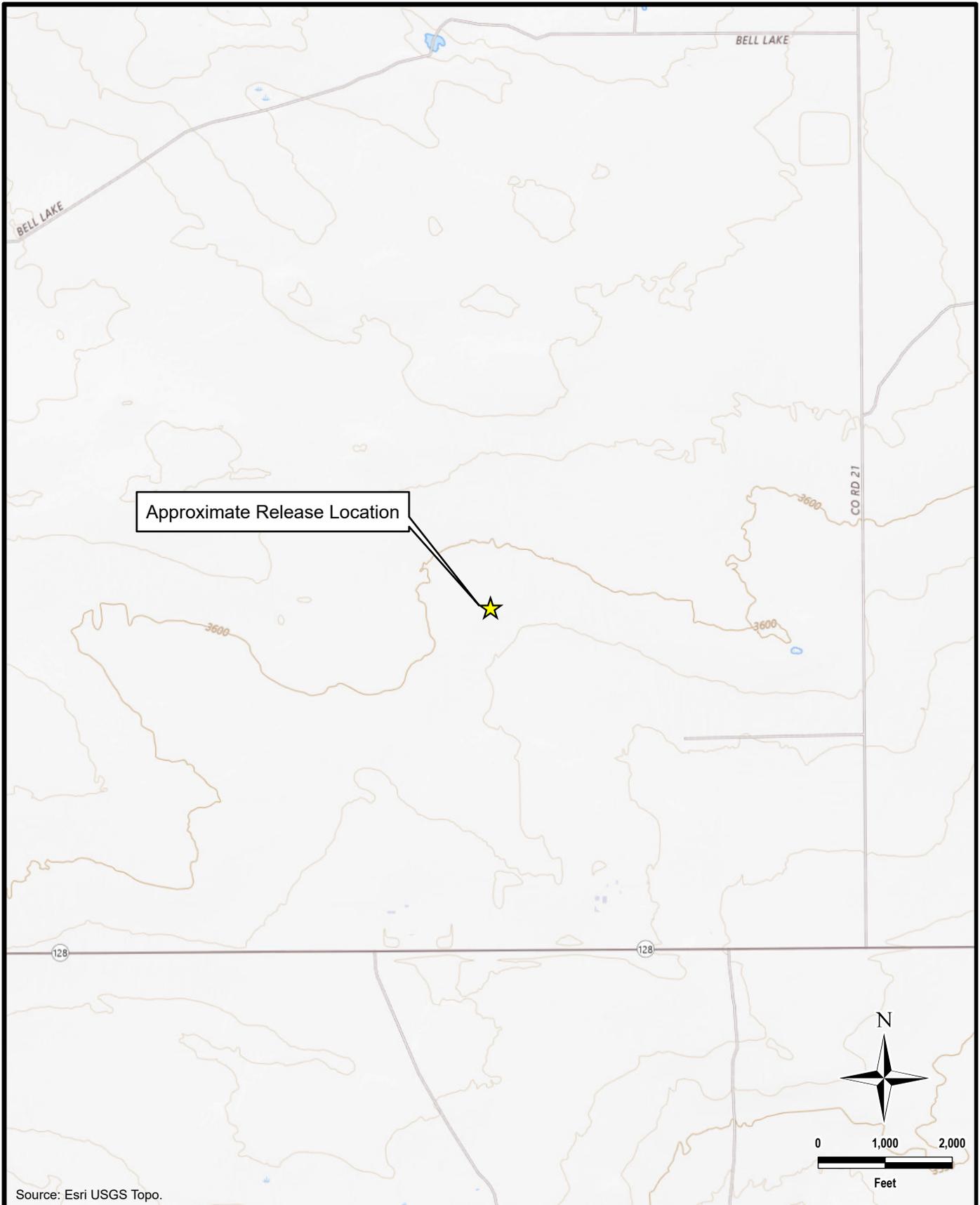
PROJECT NO.: 212C-MD-03575

DATE: OCTOBER 21, 2024

DESIGNED BY: LMV

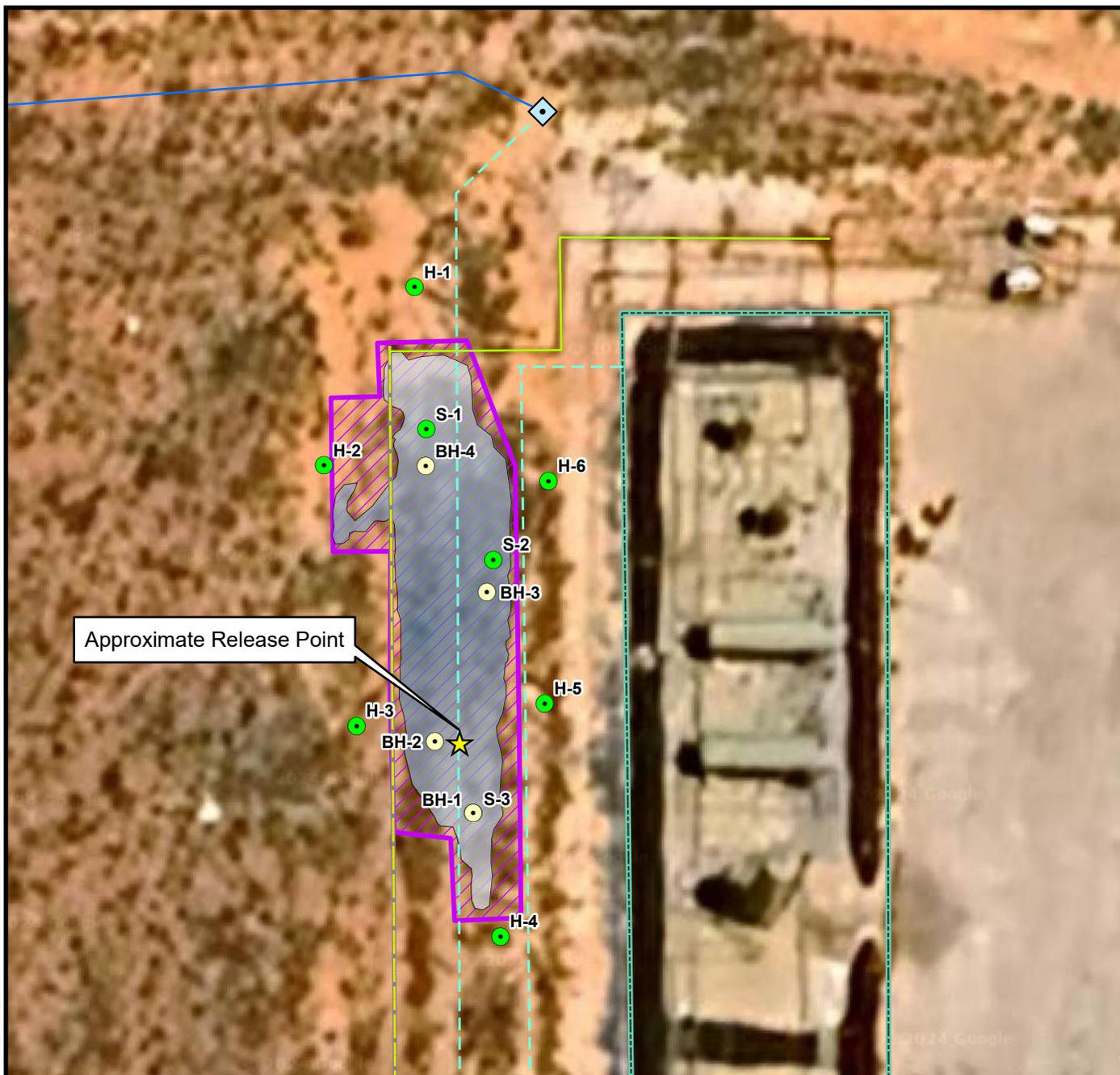
Figure No.

**1**



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 <b>TETRA TECH</b> www.tetrattech.com 901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946	<b>CONOCOPHILLIPS</b> NAPP2418342470 (32.224494° -103.528803°) LEA COUNTY, NEW MEXICO	PROJECT NO.: 212C-MD-03575 DATE: OCTOBER 21, 2024 DESIGNED BY: LMV
	<b>DECKARD FEDERAL COM #002H FLOWLINE RELEASE TOPOGRAPHIC MAP</b>	Figure No. <b>2</b>



Approximate Release Point

**Legend**

- Initial Assessment Hand Auger Location
- Additional Assessment Geoprobe Boring Location
- Steel Barrier Riser
- Approximate Release Extent
- Initial Response Excavation Extent – 1' bgs
- Approximate Extent of Battery
- COG Buried Flex Water Line
- COG Buried Gas Flow Line
- COG Buried Production Flow Line
- Steel Production Line

BGS: Below Ground Surface  
Source: Google Earth, 2023.



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**TETRA TECH**

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

**CONOCOPHILLIPS**

NAPP2418342470  
(32.224494° -103.528803°)  
LEA COUNTY, NEW MEXICO

**DECKARD FEDERAL COM #002H FLOWLINE RELEASE  
SITE ASSESSMENT MAP**

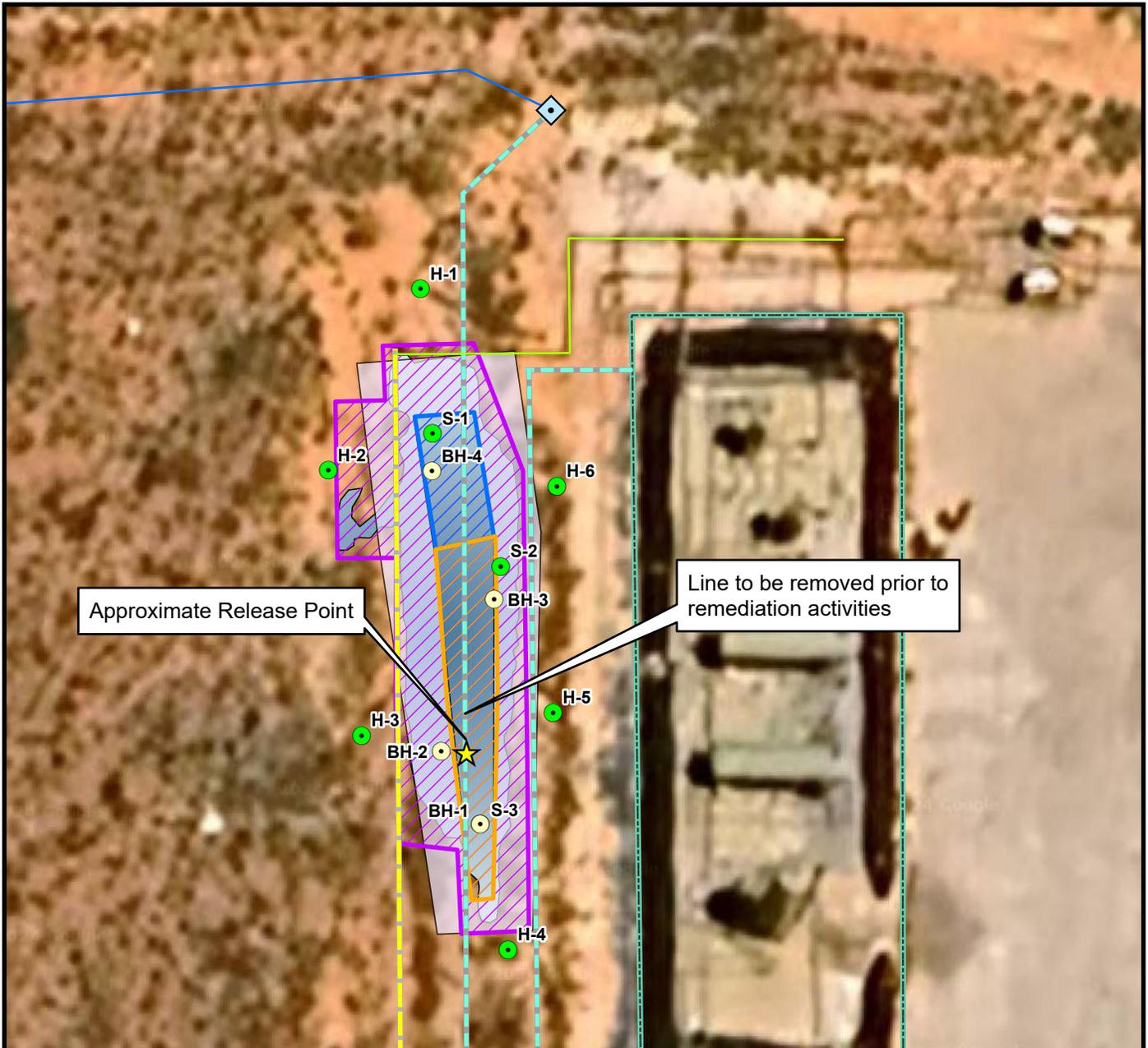
PROJECT NO.: 212C-MD-03575

DATE: OCTOBER 21, 2024

DESIGNED BY: LMV

Figure No.

**3**



**Legend**

- Initial Assessment Hand Auger Location
- Additional Assessment Geoprobe Boring Location
- Steel Barrier Riser
- Approximate Release Extent
- Approximate Area of Benching/Sloping
- Proposed Excavation 10' BGS
- Proposed Excavation 9' BGS
- 1.0' Initial Scrape By Subcontractor
- Approximate Extent of Battery
- COG Buried Flex Water Line
- COG Buried Gas Flow Line
- COG Buried Production Flow Line
- Steel Production Line

BGS: Below Ground Surface  
Source: Google Earth, 2023.



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 <b>TETRA TECH</b> www.tetrattech.com 901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946	<b>CONOCOPHILLIPS</b> NAPP2418342470 (32.224494° -103.528803°) LEA COUNTY, NEW MEXICO	PROJECT NO.: 212C-MD-03575 DATE: DECEMBER 18, 2024 DESIGNED BY: LMV
	<b>DECKARD FEDERAL COM #002H FLOWLINE RELEASE PROPOSED REMEDIATION EXTENT</b>	Figure No. <span style="font-size: 24pt; font-weight: bold;">4</span>

# **TABLES**

**TABLE 1**  
**SUMMARY OF ANALYTICAL RESULTS**  
**SOIL ASSESSMENT - NAPP2418342470**  
**CONOCOPHILLIPS**  
**DECKARD FEDERAL COM #002H**  
**LEA, NEW MEXICO**

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chlorides <sup>1</sup>	BTEX <sup>2</sup>					TPH <sup>3</sup>			
			Chlorides	PID		Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Total TPH (GRO+DRO+EXT DRO)
			ppm			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
<b>Reclamation Closure Criteria for Soils 0-4 ft bgs:</b>					<i>600 mg/kg</i>	<i>10 mg/kg</i>	--	--	--	<i>50 mg/kg</i>	--	--	--	<i>100 mg/kg</i>
<b>Site RRALs for Subsurface (&gt;4 ft bgs) Soils (GW &gt;100 ft):</b>					<i>20,000 mg/kg</i>	<i>10 mg/kg</i>	--	--	--	<i>50 mg/kg</i>	--	--	--	<i>2,500 mg/kg</i>
<b>VERTICAL DELINEATION SOIL SAMPLES</b>														
S-1	7/11/2024	1.5	-	-	<b>1,100</b>	<b>24.3</b>	306	97.4	533	<b>960</b>	12,100	24,400	4,280	<b>40,780</b>
		2	-	-	<b>4,280</b>	<b>35.2</b>	264	77.4	322	<b>699</b>	7,570	12,500	2,180	<b>22,250</b>
		3	-	-	<b>4,400</b>	<b>59.4</b>	298	80.8	325	<b>763</b>	11,900	15,600	2,690	<b>30,190</b>
		4	-	-	<b>4,480</b>	<b>47.6</b>	274	79.2	323	<b>724</b>	11,100	16,800	2,920	<b>30,820</b>
		5	-	-	3,840	<b>64.5</b>	395	100	420	<b>979</b>	10,000	16,900	2,860	<b>29,760</b>
		6	-	-	3,040	<b>44.0</b>	357	98.3	417	<b>916</b>	9,830	18,300	3,070	<b>31,200</b>
		7	-	-	2,480	<b>63.2</b>	411	99.0	413	<b>986</b>	9,560	14,500	2,450	<b>26,510</b>
		8	-	-	2,600	<b>32.5</b>	295	83.5	333	<b>744</b>	7,870	15,000	2,380	<b>25,250</b>
S-2	7/11/2024	1.5	-	-	<b>2,800</b>	<b>15.1</b>	198	55.7	227	<b>495</b>	5,740	11,900	2,010	<b>19,650</b>
		2	-	-	<b>1,800</b>	<b>16.4</b>	163	32.6	212	<b>424</b>	6,050	12,700	2,190	<b>20,940</b>
		3	-	-	<b>2,080</b>	<b>8.24</b>	69.8	10.1	103	<b>191</b>	2,530	6,790	1,180	<b>10,500</b>
		4	-	-	<b>1,520</b>	6.39	57.2	7.03	90.5	<b>161</b>	2,220	6,480	1,150	<b>9,850</b>
		5	-	-	896	<b>10.3</b>	73.3	17.6	135	<b>236</b>	4,230	11,200	1,420	<b>16,850</b>
		6	-	-	496	3.26	26.3	5.05	65.1	<b>99.7</b>	2,310	7,900	1,010	<b>11,220</b>
		7	-	-	80	<0.050	0.12	<0.050	0.21	0.33	<10.0	128	12	140
		8	-	-	112	<0.050	0.15	0.14	0.39	0.68	20.3	303	41.4	364.7
S-3	7/11/2024	1.5	-	-	<b>3,680</b>	<b>11.9</b>	129	38.8	178	<b>357</b>	4,220	9,010	1,570	<b>14,800</b>
		2	-	-	<b>3,920</b>	<b>15.8</b>	175	53	211	<b>454</b>	6,080	11,700	1,890	<b>19,670</b>
		3	-	-	<b>2,800</b>	<b>21.0</b>	186	54.5	208	<b>470</b>	4,850	10,300	1,850	<b>17,000</b>
		4	-	-	<b>1,880</b>	<b>37.8</b>	186	78.1	280	<b>583</b>	8,510	14,700	2,560	<b>25,770</b>
		5	-	-	1,500	<b>36.5</b>	233	84	302	<b>655</b>	9,140	15,600	1,910	<b>26,650</b>
		6	-	-	1,880	<b>39.3</b>	247	88.70	316	<b>691</b>	10,200	17,700	2,190	<b>30,090</b>
		7	-	-	1,280	<b>78.9</b>	397	133	466	<b>1,080</b>	15,300	23,100	2,880	<b>41,280</b>
		8	-	-	1,460	<b>38.2</b>	216	76.7	274	<b>605</b>	8,870	14,900	1,820	<b>25,590</b>
BH-1	9/26/2024	0-1	-	-	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		2-3	-	-	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		3-4	-	-	128	<0.050	<0.050	<0.050	0.198	<0.300	<10.0	162	32.2	194.2
		4-5	-	-	1,010	<0.200	9.28	7.53	40.7	<b>57.5</b>	1,090	8,250	1,180	<b>10,520</b>
		6-7	-	-	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	176	31.7	207.7
		8-9	-	-	624	2.44	51.9	20.2	110	<b>185</b>	2,640	7,750	1,050	<b>11,440</b>
		9-10	1,400	1,000	1,340	<0.050	0.290	0.185	3.99	4.47	261	1,480	217	1,958
		14-15	50	375	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		19-20	30	675	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	103	12.3	115.3
24-25	-	510	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	84.6	<10.0	84.6		
BH-2	9/26/2024	0-1	-	-	<b>2,280</b>	<0.050	0.189	0.252	4.51	4.95	318	5,870	885	<b>7,073</b>
		2-3	-	-	<b>3,040</b>	<b>19.2</b>	208	40.9	258	<b>527</b>	7,690	14,900	1,990	<b>24,580</b>
		3-4	-	-	<b>912</b>	<b>16.6</b>	194	54.8	203	<b>468</b>	7,750	13,500	1,820	<b>23,070</b>
		4-5	-	-	32.0	<1.00	36.6	24.4	97.3	<b>158</b>	2,570	7,820	1,040	<b>11,430</b>
		6-7	-	-	80.0	<0.050	0.151	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		8-9	-	-	48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	31.5	<10.0	31.5
		9-10	26	300	2,000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		14-15	8	389	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		19-20	10	250	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-

TABLE 1  
 SUMMARY OF ANALYTICAL RESULTS  
 SOIL ASSESSMENT - NAPP2418342470  
 CONOCOPHILLIPS  
 DECKARD FEDERAL COM #002H  
 LEA, NEW MEXICO

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chlorides <sup>1</sup>	BTEX <sup>2</sup>					TPH <sup>3</sup>			
			Chlorides	PID		Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Total TPH (GRO+DRO+EXT DRO)
											C <sub>6</sub> - C <sub>10</sub>	> C <sub>10</sub> - C <sub>28</sub>	> C <sub>28</sub> - C <sub>36</sub>	
ft. bgs					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
<b>Reclamation Closure Criteria for Soils 0-4 ft bgs:</b>					<i>600 mg/kg</i>	<i>10 mg/kg</i>	--	--	--	<i>50 mg/kg</i>	--	--	--	<i>100 mg/kg</i>
<b>Site RRALs for Subsurface (&gt;4 ft bgs) Soils (GW &gt;100 ft):</b>					<i>20,000 mg/kg</i>	<i>10 mg/kg</i>	--	--	--	<i>50 mg/kg</i>	--	--	--	<i>2,500 mg/kg</i>
BH-3	9/26/2024	0-1	-	-	96.0	0.115	0.352	<0.050	0.241	0.708	24.2	5,610	1,440	<b>7,074</b>
		2-3	-	-	<b>2,270</b>	<b>11.9</b>	100	16.0	158	<b>287</b>	2,770	6,660	1,080	<b>10,510</b>
		3-4	-	-	<b>2,040</b>	<b>34.0</b>	276	66.1	315	<b>691</b>	6,780	12,900	1,970	<b>21,650</b>
		4-5	-	-	1,360	<b>12.1</b>	148	41.4	190	<b>392</b>	3,680	8,130	1,190	<b>13,000</b>
		6-7	-	-	1,520	<b>22.8</b>	234	64.4	270	<b>591</b>	7,430	14,300	2,050	<b>23,780</b>
		8-9	-	-	512	<b>14.3</b>	168	50.0	215	<b>447</b>	4,960	9,990	1,380	<b>16,330</b>
		9-10	81	20	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
14-15	306	3	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-		
BH-4	9/26/2024	0-1	-	-	<b>1,150</b>	0.204	0.752	0.760	5.71	7.43	436	5,560	1,010	<b>7,006</b>
		2-3	-	-	<b>4,720</b>	<b>42.7</b>	201	47.9	195	<b>487</b>	4,320	7,130	1,010	<b>12,460</b>
		3-4	-	-	<b>3,520</b>	<b>31.4</b>	236	61.6	249	<b>578</b>	6,980	11,800	1,700	<b>20,480</b>
		4-5	-	-	2,000	<b>13.3</b>	141	41.0	176	<b>371</b>	4,170	8,430	1,160	<b>13,760</b>
		6-7	-	-	1,880	<b>12.6</b>	130	36.1	166	<b>345</b>	3,500	7,500	1,070	<b>12,070</b>
		8-9	-	-	1,840	<b>59.6</b>	392	97.4	371	<b>920</b>	5,690	9,290	1,220	<b>16,200</b>
		9-10	1,000	500	656	<b>27.9</b>	257	68.6	244	<b>598</b>	8,070	13,700	1,940	<b>23,710</b>
		14-15	-	-	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
19-20	400	35	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	222	41.8	263.8		
<b>HORIZONTAL DELINEATION SOIL SAMPLES</b>														
H-1	7/11/2024	0-0.5'	-	-	16.0	<0.050	<0.050	<0.050	<0.15	<0.300	<10.0	<10.0	<10.0	<10.0
H-2	7/11/2024	0-0.5'	-	-	16.0	<0.050	<0.050	<0.050	<0.15	<0.300	<10.0	<10.0	<10.0	<10.0
H-3	7/11/2024	0-0.5'	-	-	16.0	<0.050	<0.050	<0.050	<0.15	<0.300	<10.0	<10.0	<10.0	<10.0
H-4	7/11/2024	0-0.5'	-	-	16.0	<0.050	0.16	<0.050	<0.15	<0.300	<10.0	<10.0	<10.0	<10.0
H-5	7/11/2024	0-0.5'	-	-	16.0	<0.050	<0.050	<0.050	<0.15	<0.300	<10.0	<10.0	<10.0	<10.0
H-6	7/11/2024	0-0.5'	-	-	16.0	<0.050	<0.050	<0.050	<0.15	<0.300	<10.0	<10.0	<10.0	<10.0

NOTES:

- ft. Feet
- bgs Below ground surface
- mg/kg Milligrams per kilogram
- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics
- DRO Diesel range organics
- 1 Method SM4500Cl-B
- 2 Method 8021B
- 3 Method 8015M

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

Shaded row Shaded rows indicate soil intervals proposed for excavation

# **APPENDIX A C-141 Forms**

# OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

## [C-141] Initial C-141 (C-141-V-INITIAL) Application

### Submission Information

Submission ID:	360033	Districts:	Hobbs
Operator:	<a href="#">[229137]</a> COG OPERATING LLC	Counties:	Lea
Description:	COG OPERATING LLC [229137] , Deckard Federal Com 002H , nAPP2418342470		
Status:	APPROVED		
Status Date:	07/01/2024		
References (2):	fAPP2203454442, nAPP2418342470		

### Forms

Attachments: [Volume Calculation](#)

### Questions

#### Prerequisites

Incident ID (n#)	nAPP2418342470
Incident Name	NAPP2418342470 DECKARD FEDERAL COM 002H @ 0
Incident Type	Release Other
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2203454442] DECKARD FEE 2H BATTERY

#### Location of Release Source

Please answer all the questions in this group.

Site Name	Deckard Federal Com 002H
Date Release Discovered	06/21/2024
Surface Owner	Private

#### Incident Details

Please answer all the questions in this group.

Incident Type	Release <b>Other</b>
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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Table with 2 columns: Question/Details and Answer. Rows include Crude Oil Released (bbls) Details, Produced Water Released (bbls) Details, Is the concentration of chloride in the produced water >10,000 mg/l, Condensate Released (bbls) Details, Natural Gas Vented (Mcf) Details, Natural Gas Flared (Mcf) Details, Other Released Details, and Are there additional details for the questions above.

Nature and Volume of Release (continued)

Table with 2 columns: Question and Answer. Rows include Is this a gas only submission (i.e. only significant Mcf values reported), Was this a major release as defined by Subsection A of 19.15.29.7 NMAC, and Reasons why this would be considered a submission for a notification of a major release.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

Table with 2 columns: Question and Answer. Rows include The source of the release has been stopped, The impacted area has been secured to protect human health and the environment, Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices, All free liquids and recoverable materials have been removed and managed appropriately, and If all the actions described above have not been undertaken, explain why.

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.

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 notifications and perform corrective actions for releases which may endanger public health or the environment.

I hereby agree and sign off to the above statement. Name: Brittany Esparza, Title: Environmental Technician, Email: brittany.Esparza@ConocoPhillips.com, Date: 07/01/2024

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.

Table with 2 columns: Question and Answer. Rows include What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs), What method was used to determine the depth to ground water, and Did this release impact groundwater or surface water.

What is the minimum distance, between the closest lateral extents of the release and the following surface areas:

Table with 2 columns: Question and Answer. Rows include A continuously flowing watercourse or any other significant watercourse, Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark), and An occupied permanent residence, school, hospital, institution, or church.

Searches

Operator Data

Hearing Fee Application

A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

**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 **No**

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 then it should consult with the division to determine if another remediation plan submission is required.

**Acknowledgments**

This submission type does not have acknowledgments, at this time.

**Comments**

No comments found for this submission.

**Conditions**

Summary: scott.rodgers (7/1/2024), None

**Reasons**

No reasons found for this submission.

Go Back

## **APPENDIX B**

# **Site Characterization Data**

# OCD Land Ownership



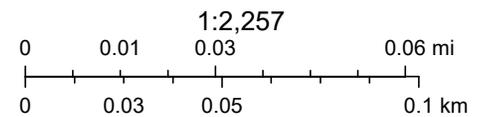
10/14/2024, 12:40:46 PM

### Mineral Ownership

- A-All minerals are owned by U.S.
- N-No minerals are owned by the U.S.

### Land Ownership

P



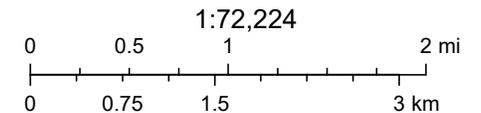
U.S. BLM, Maxar, Microsoft, Esri, HERE, Garmin, iPC

# USGS Groundwater Wells



10/14/2024, 1:26:39 PM

- ▲ USGS Historical GW Wells
- ▲ USGS Active Monitoring GW Wells



Esri, HERE, Garmin, Earthstar Geographics, USGS



# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO) POD1		WELL TAG ID NO N/A		OSE FILE NO(S) C-04838 POD 1		
	WELL OWNER NAME(S) Devon Energy Production Company				PHONE (OPTIONAL) 575-748-1838		
	WELL OWNER MAILING ADDRESS 205 E. Bender Road #150				CITY Hobbs	STATE NM	ZIP 88240
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 13	SECONDS 35.3	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LONGITUDE 103	31	08.9	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit P, Section 12, Township 24S, Range 33E, Lea County, NM							

2. DRILLING & CASING INFORMATION	LICENSE NO WD1188	NAME OF LICENSED DRILLER John Scarborough			NAME OF WELL DRILLING COMPANY John Scarborough Drilling Inc.			
	DRILLING STARTED 06/06/2024	DRILLING ENDED 06/06/2024	DEPTH OF COMPLETED WELL (FT) 105	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	105	5	Soil Boring	-	-	-	-

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				N/A		

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 04/30/19)		
FILE NO	POD NO	TRN NO			
LOCATION		WELL TAG ID NO			PAGE 1 OF 2





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

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

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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
<a href="#">C 04838 POD1</a>		CUB	LE	SE	SE	SE	12	24S	33E	639536.1	3566499.4		935	105		
<a href="#">C 03917 POD1</a>	C	LE	LE	SE	NW	SW	13	24S	33E	638373.9	3565212.6		1086	600	420	180
<a href="#">C 03666 POD1</a>	C	LE	LE	NE	SW	SE	13	24S	33E	639132.5	3565078.2		1291	650	390	260

Average Depth to Water: **405 feet**

Minimum Depth: **390 feet**

Maximum Depth: **420 feet**

**Record Count:** 3

**Basin/County Search:**

**County:** LE

**UTM Filters (in meters):**

**Easting:** 638629.79

**Northing:** 3566268.26

**Radius:** 001600

\* UTM location was derived from PLSS - see Help

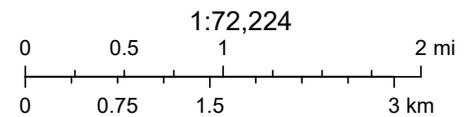
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

# OCD Water Bodys



10/14/2024, 12:49:35 PM

-  OSW Water Bodys
-  OSE Streams

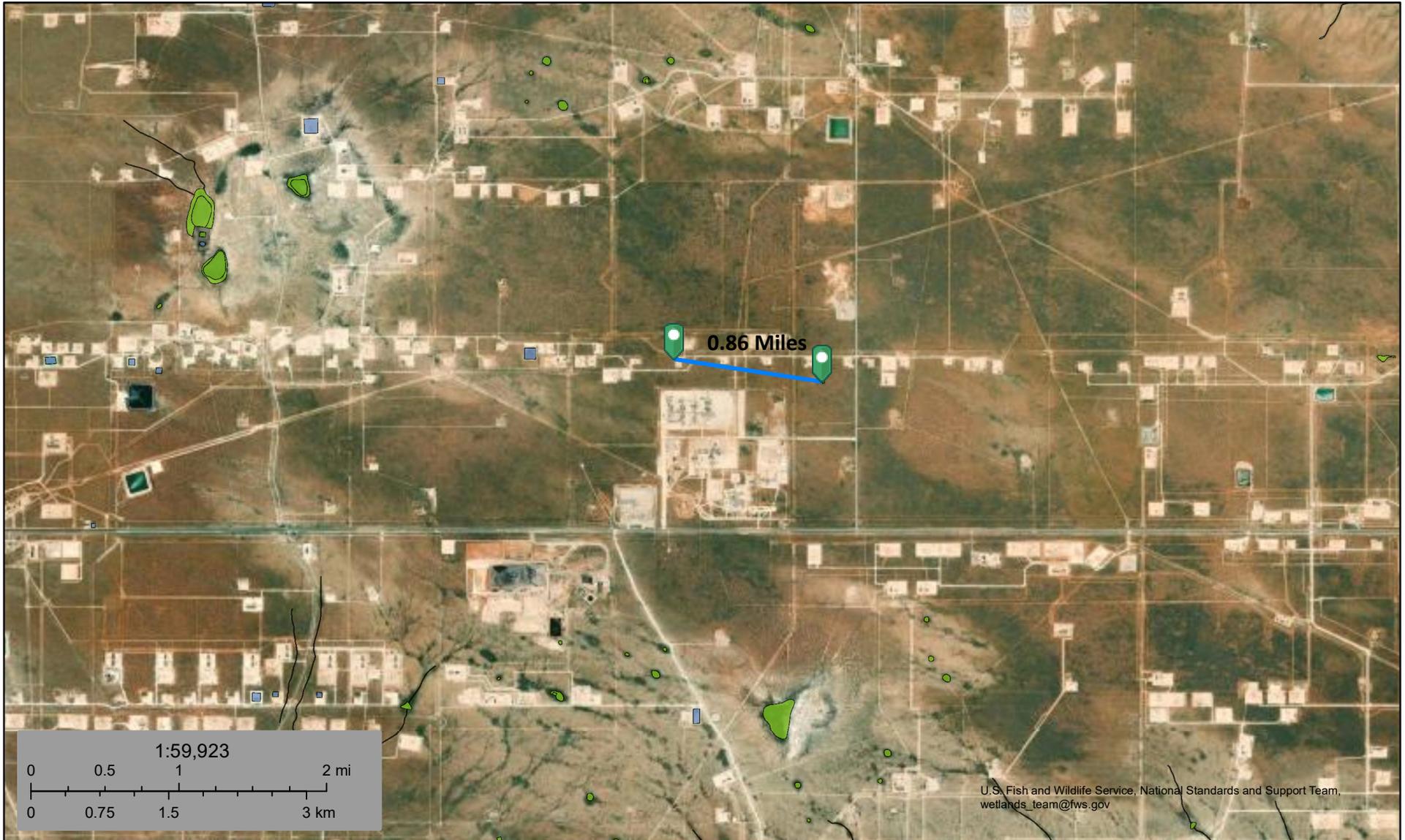


Esri, HERE, Garmin, Earthstar Geographics, NM OSE



**U.S. Fish and Wildlife Service**  
**National Wetlands Inventory**

# National Wetlands Inventory



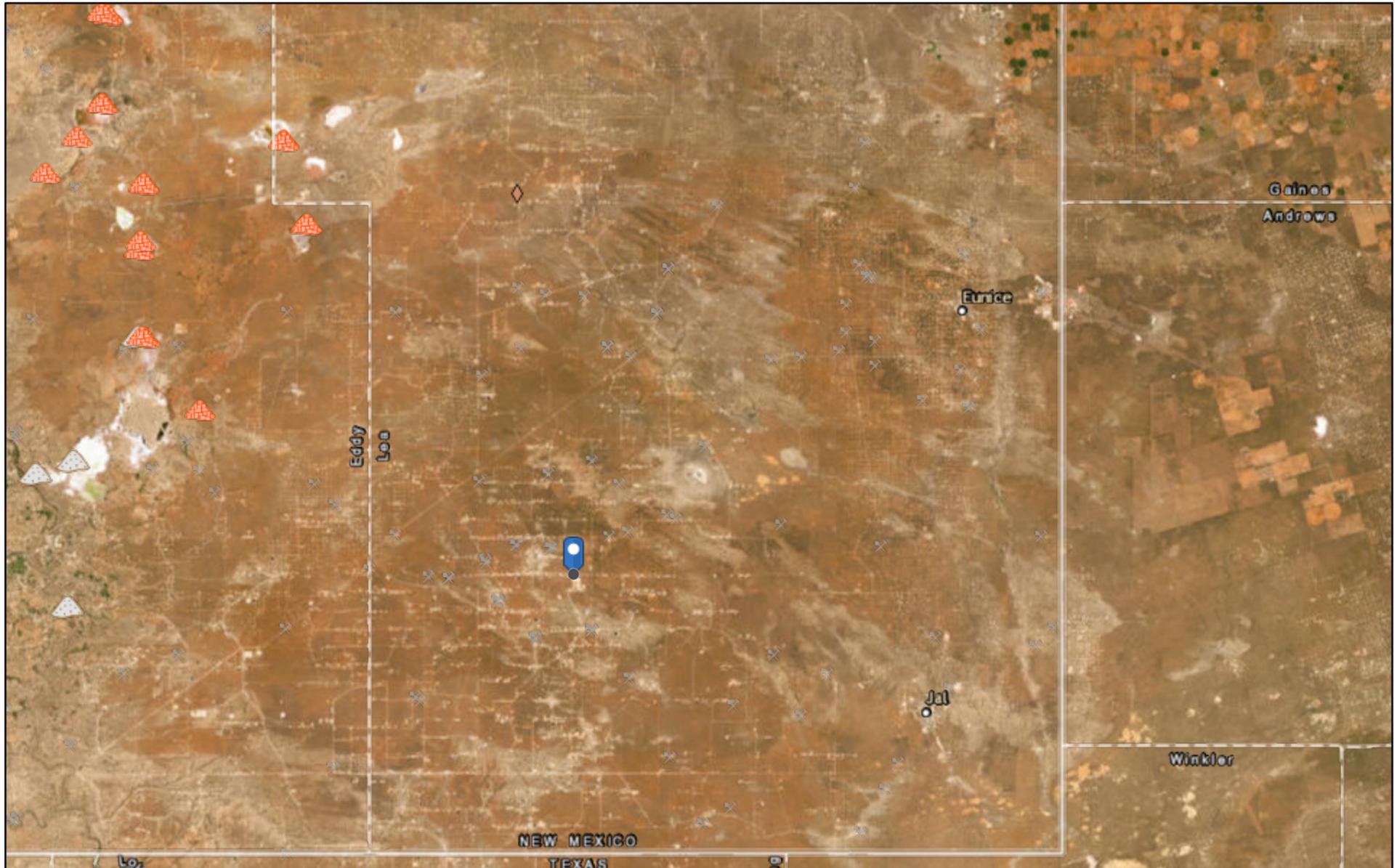
October 14, 2024

### Wetlands

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

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

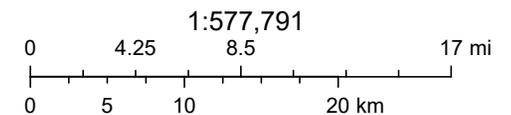
# Active Mines in New Mexico



10/14/2024, 1:09:09 PM

Registered Mines

- × Aggregate, Stone etc.
- × Aggregate, Stone etc.
- × Aggregate, Stone etc.
- △ Potash
- △ Salt
- ◇ Industrial Minerals (Other)

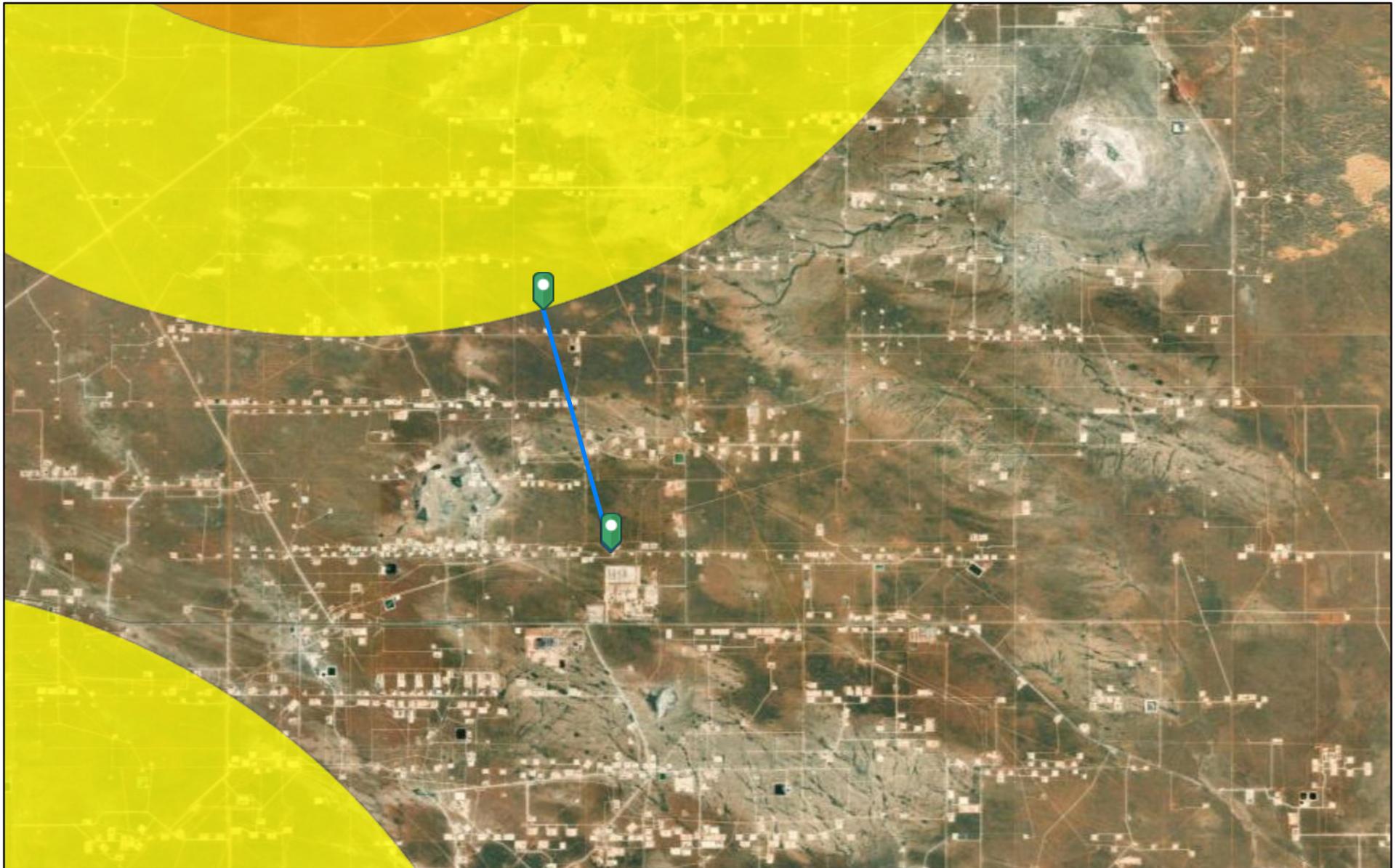


Esri, HERE, Garmin, Earthstar Geographics

EMNRD MMD GIS Coordinator

NM Energy, Minerals and Natural Resources Department (<http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795>)

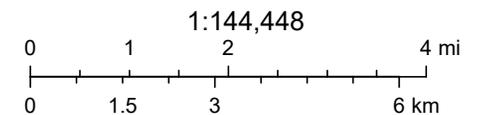
# OCD Induced Seismicity Areas



10/14/2024, 12:59:41 PM

Seismic Response 3.0 to 3.4  10 mi.

6 mi.



Oil Conservation Division (OCD), Energy, Minerals and Natural Resources Department (EMNRD), Esri, HERE, Garmin, Earthstar Geographics

New Mexico Oil Conservation Division

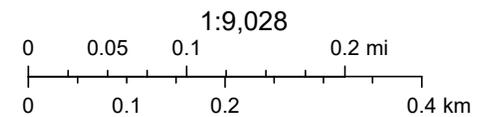
# OCD Potential Karst Areas



10/14/2024, 12:57:38 PM

Karst Occurrence Potential

 Low

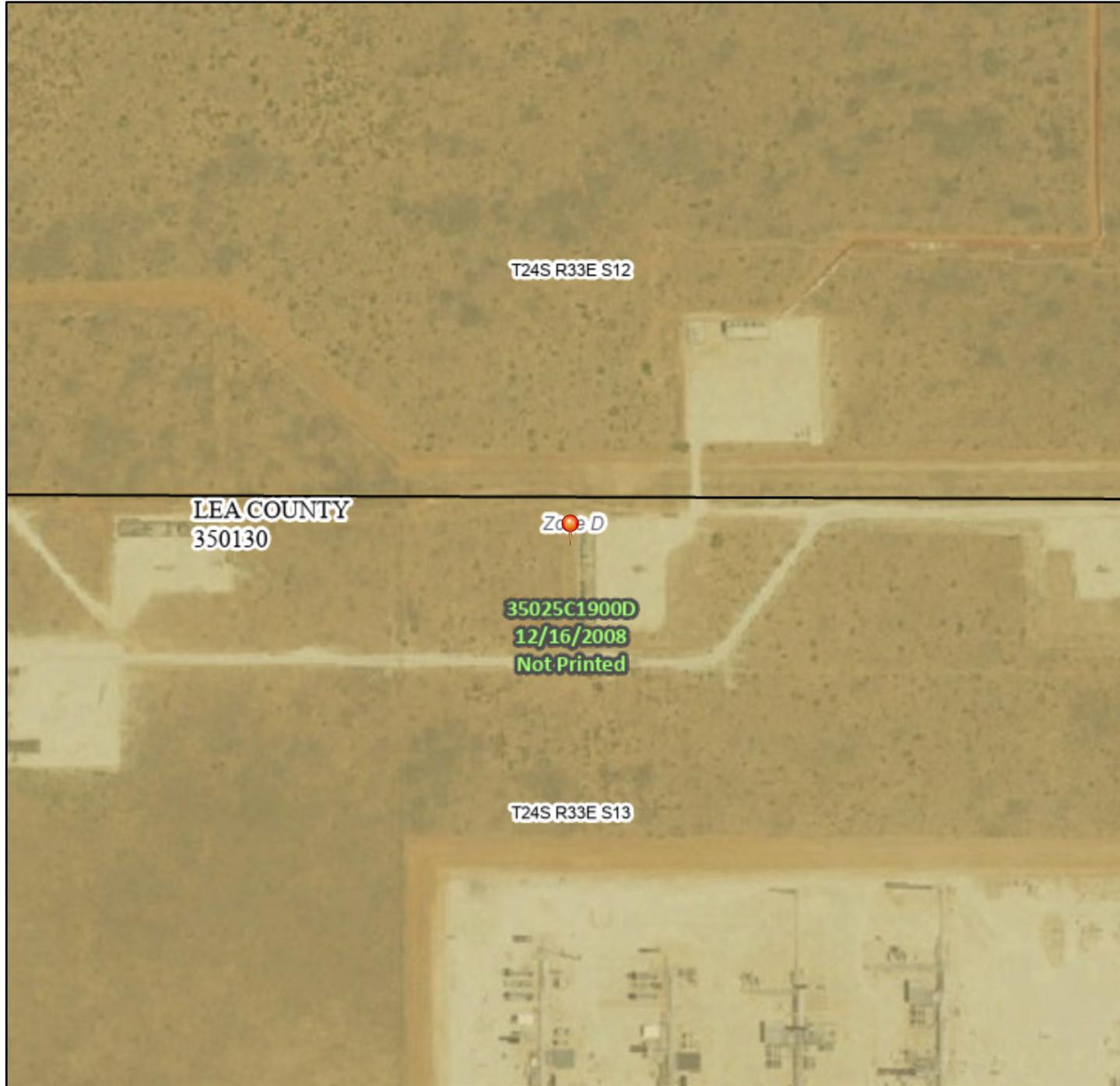


BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, IPC, Maxar

# National Flood Hazard Layer FIRMette



103°32'2"W 32°13'43"N



## Legend

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

- SPECIAL FLOOD HAZARD AREAS**
  - Without Base Flood Elevation (BFE) Zone A, V, A99
  - With BFE or Depth Zone AE, AO, AH, VE, AR
  - Regulatory Floodway
- OTHER AREAS OF FLOOD HAZARD**
  - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
  - Future Conditions 1% Annual Chance Flood Hazard Zone X
  - Area with Reduced Flood Risk due to Levee. See Notes. Zone X
  - Area with Flood Risk due to Levee Zone D
- OTHER AREAS**
  - NO SCREEN Area of Minimal Flood Hazard Zone X
  - Effective LOMRs
  - Area of Undetermined Flood Hazard Zone D
- GENERAL STRUCTURES**
  - Channel, Culvert, or Storm Sewer
  - Levee, Dike, or Floodwall
- OTHER FEATURES**
  - Cross Sections with 1% Annual Chance Water Surface Elevation
  - Coastal Transect
  - Base Flood Elevation Line (BFE)
  - Limit of Study
  - Jurisdiction Boundary
  - Coastal Transect Baseline
  - Profile Baseline
  - Hydrographic Feature
- MAP PANELS**
  - Digital Data Available
  - No Digital Data Available
  - Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/14/2024 at 2:12 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



1:6,000

103°31'25"W 32°13'13"N

# **APPENDIX C**

## **Photographic Documentation**



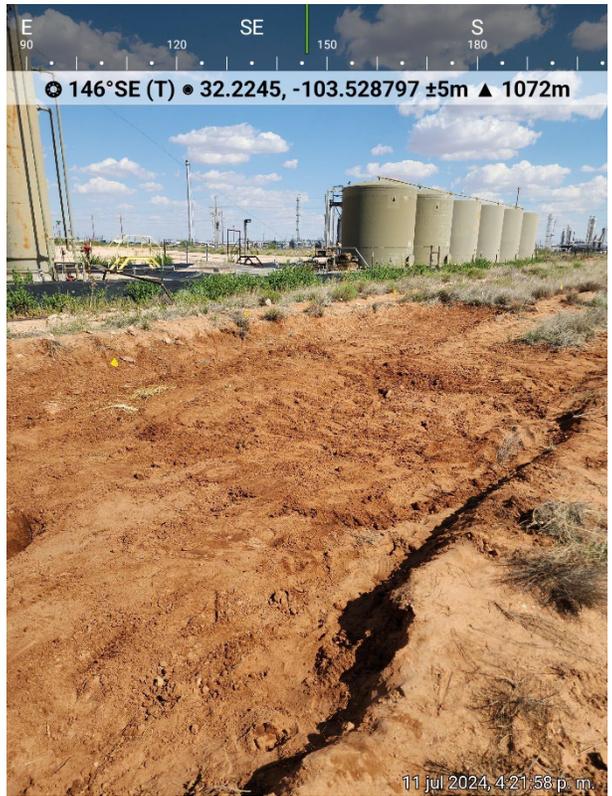
TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View south-southeast of site signage. Deckard Federal Come #2H.	1
	SITE NAME	Deckard Federal Com #003H Flowline Release	7/9/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View northeast of approximate release extent.	2
	SITE NAME	Deckard Federal Com #003H Flowline Release	7/9/2024



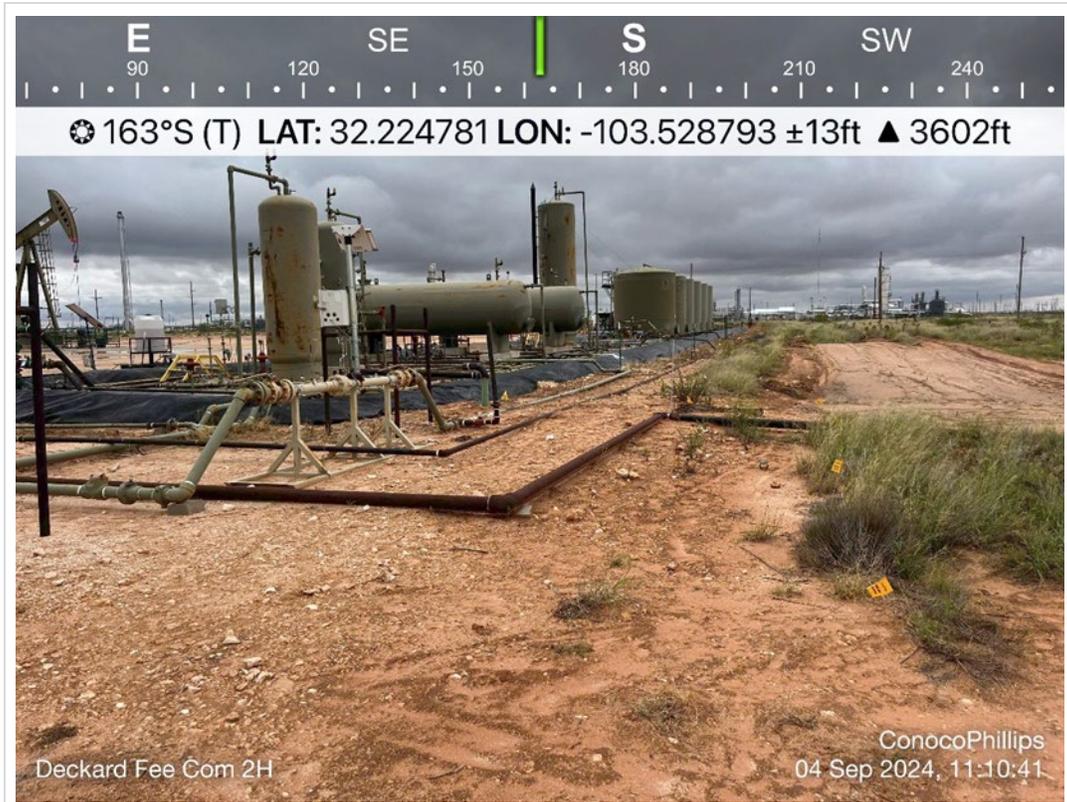
TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View south of approximate release extent.	3
	SITE NAME	Deckard Federal Com #003H Flowline Release	7/9/2024



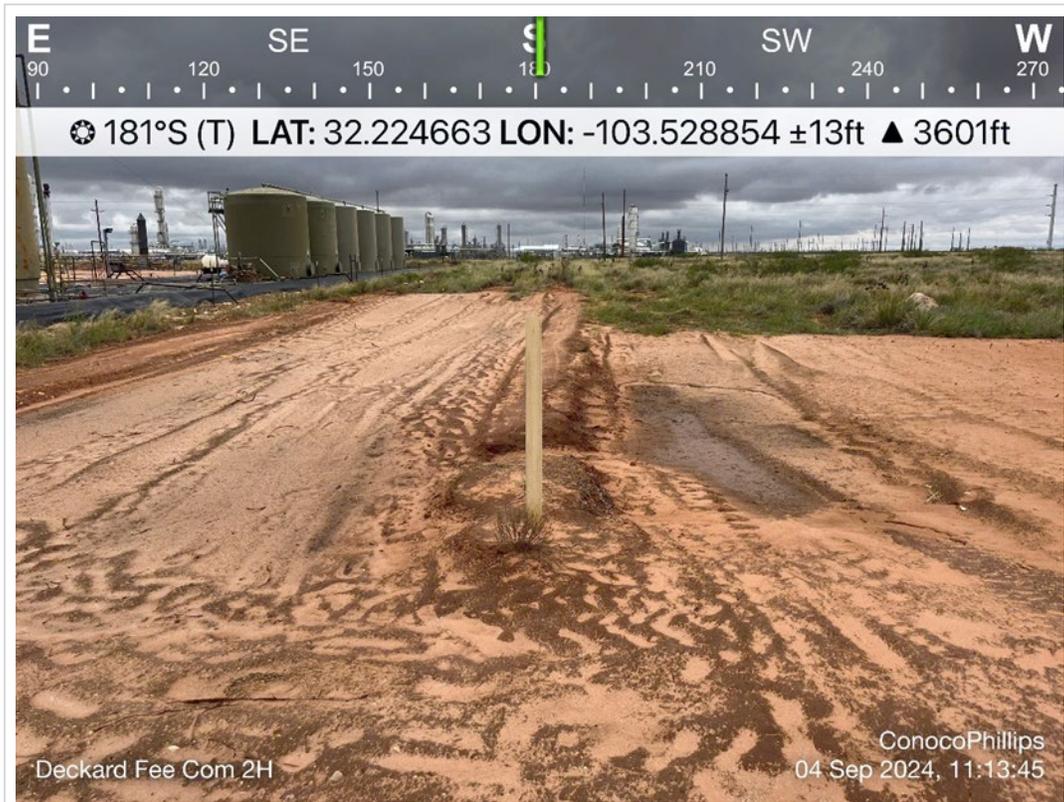
TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View north-northwest of initial response activities. View of approximate scrape area.	4
	SITE NAME	Deckard Federal Com #003H Flowline Release	7/11/2024



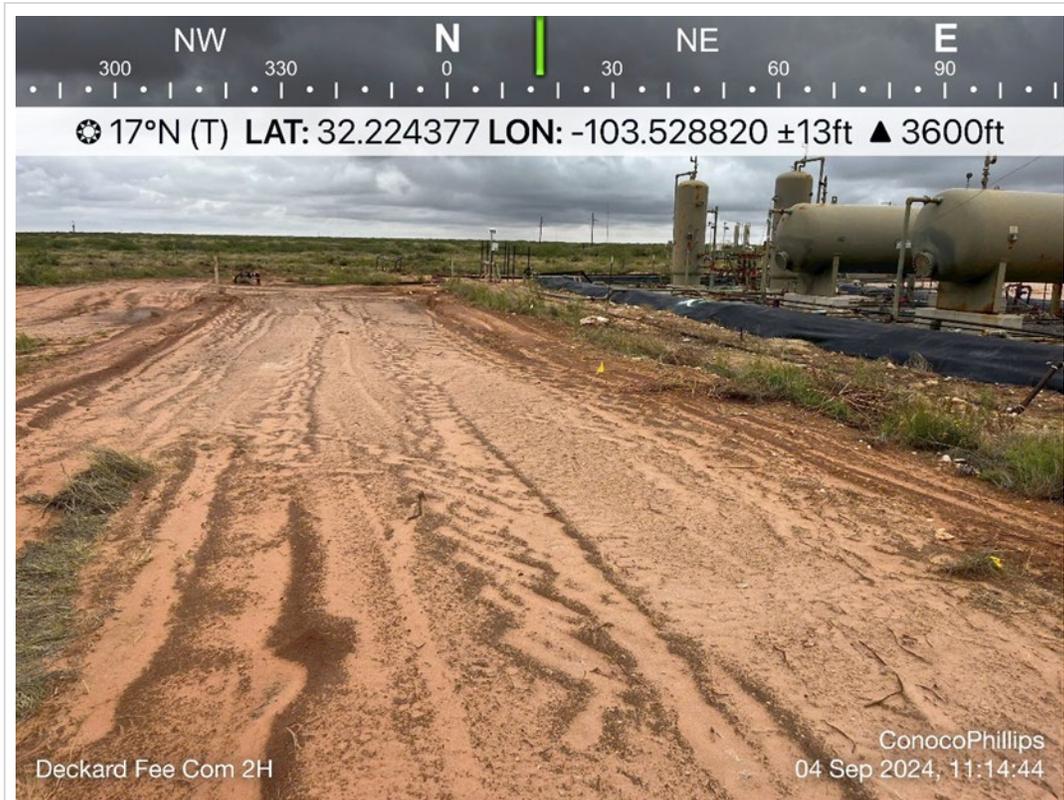
TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View north-northeast of initial response activities. View of approximate scrape area.	5
	SITE NAME	Deckard Federal Com #003H Flowline Release	7/11/2024



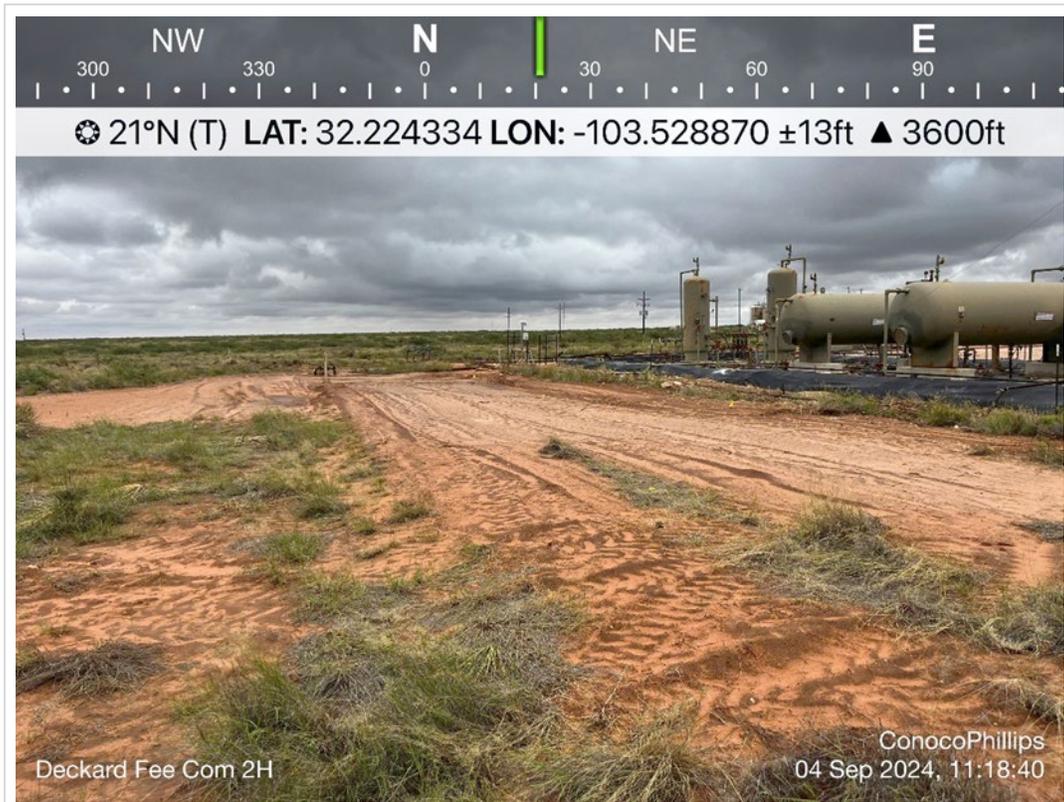
TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View south-southeast of approximate release extent and surface/subsurface utilities. View of initial scrape area.	6
	SITE NAME	Deckard Federal Com #003H Flowline Release	9/4/2024



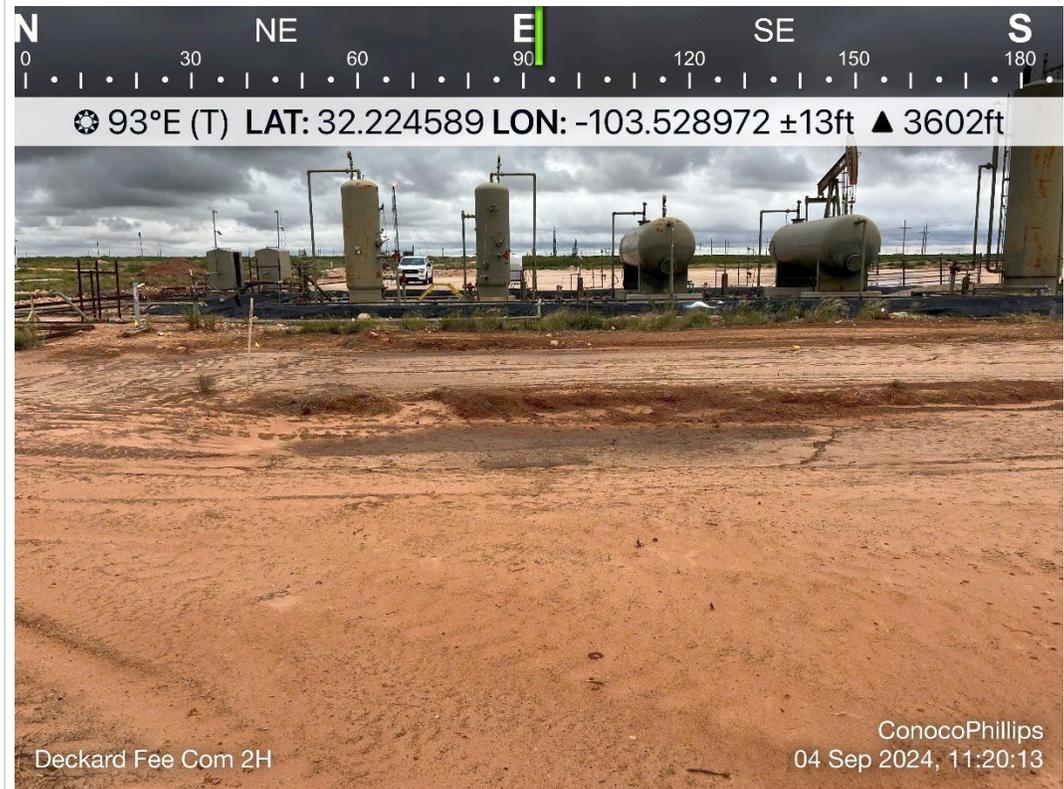
TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View south of approximate release extent and subsurface utility markings. View of initial scrape area.	7
	SITE NAME	Deckard Federal Com #003H Flowline Release	9/4/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View north-northeast of approximate release extent and subsurface utility markings. View of initial scrape area.	8
	SITE NAME	Deckard Federal Com #003H Flowline Release	9/4/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View north-northeast of approximate release extent and subsurface utility markings. View of initial scrape area.	9
	SITE NAME	Deckard Federal Com #003H Flowline Release	9/4/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View east of approximate release extent and subsurface utility markings. View of initial scrape area.	10
	SITE NAME	Deckard Federal Com #003H Flowline Release	9/4/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View south-southeast of Geoprobe assessment activities inside approximate release extent.	11
	SITE NAME	Deckard Federal Com #003H Flowline Release	9/26/2024

# **APPENDIX D**

## **Laboratory Analytical Data**



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

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July 15, 2024

CONNER MOEHRING  
CARMONA RESOURCES  
310 W WALL ST, SUITE 500  
MIDLAND, TX 79701

RE: DECKARD FEDERAL COM 3H FLOWLINE LEAK (06.21.24)

Enclosed are the results of analyses for samples received by the laboratory on 07/11/24 15:54.

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

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 1 (3') (H244163-01)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>59.4</b>	2.00	07/13/2024	ND	1.98	99.1	2.00	5.89	
<b>Toluene*</b>	<b>298</b>	2.00	07/13/2024	ND	1.95	97.4	2.00	5.12	
<b>Ethylbenzene*</b>	<b>80.8</b>	2.00	07/13/2024	ND	1.98	98.9	2.00	4.88	
<b>Total Xylenes*</b>	<b>325</b>	6.00	07/13/2024	ND	5.84	97.3	6.00	4.98	
<b>Total BTEX</b>	<b>763</b>	12.0	07/13/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4400</b>	16.0	07/12/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>11900</b>	50.0	07/12/2024	ND	204	102	200	1.81	
<b>DRO &gt;C10-C28*</b>	<b>15600</b>	50.0	07/12/2024	ND	204	102	200	5.44	
<b>EXT DRO &gt;C28-C36</b>	<b>2690</b>	50.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 441 % 48.2-134

Surrogate: 1-Chlorooctadecane 284 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 1 (4') (H244163-02)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>47.6</b>	2.00	07/13/2024	ND	1.98	99.1	2.00	5.89	
<b>Toluene*</b>	<b>274</b>	2.00	07/13/2024	ND	1.95	97.4	2.00	5.12	
<b>Ethylbenzene*</b>	<b>79.2</b>	2.00	07/13/2024	ND	1.98	98.9	2.00	4.88	
<b>Total Xylenes*</b>	<b>323</b>	6.00	07/13/2024	ND	5.84	97.3	6.00	4.98	
<b>Total BTEX</b>	<b>724</b>	12.0	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 138 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4480</b>	16.0	07/12/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>11100</b>	50.0	07/12/2024	ND	204	102	200	1.81	
<b>DRO &gt;C10-C28*</b>	<b>16800</b>	50.0	07/12/2024	ND	204	102	200	5.44	
<b>EXT DRO &gt;C28-C36</b>	<b>2920</b>	50.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 463 % 48.2-134

Surrogate: 1-Chlorooctadecane 295 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 2 (3') (H244163-03)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>8.24</b>	1.00	07/12/2024	ND	2.12	106	2.00	5.43		
<b>Toluene*</b>	<b>69.8</b>	1.00	07/12/2024	ND	2.28	114	2.00	3.81	QM-07	
<b>Ethylbenzene*</b>	<b>10.1</b>	1.00	07/12/2024	ND	2.35	118	2.00	3.68	QM-07	
<b>Total Xylenes*</b>	<b>103</b>	3.00	07/12/2024	ND	7.27	121	6.00	3.15	QM-07	
<b>Total BTEX</b>	<b>191</b>	6.00	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	
<b>Chloride</b>	<b>2080</b>	16.0	07/12/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10*</b>	<b>2530</b>	10.0	07/12/2024	ND	200	100	200	0.613	QM-07, QR-03		
<b>DRO &gt;C10-C28*</b>	<b>6790</b>	10.0	07/12/2024	ND	197	98.5	200	2.84	QM-07		
<b>EXT DRO &gt;C28-C36</b>	<b>1180</b>	10.0	07/12/2024	ND							

Surrogate: 1-Chlorooctane 252 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 2 (4') (H244163-04)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>6.39</b>	0.500	07/12/2024	ND	2.12	106	2.00	5.43	
<b>Toluene*</b>	<b>57.2</b>	0.500	07/12/2024	ND	2.28	114	2.00	3.81	
<b>Ethylbenzene*</b>	<b>7.03</b>	0.500	07/12/2024	ND	2.35	118	2.00	3.68	
<b>Total Xylenes*</b>	<b>90.5</b>	1.50	07/12/2024	ND	7.27	121	6.00	3.15	
<b>Total BTEX</b>	<b>161</b>	3.00	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 147 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1520</b>	16.0	07/12/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>2220</b>	10.0	07/12/2024	ND	200	100	200	0.613	
<b>DRO &gt;C10-C28*</b>	<b>6480</b>	10.0	07/12/2024	ND	197	98.5	200	2.84	
<b>EXT DRO &gt;C28-C36</b>	<b>1150</b>	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 239 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 3 (3') (H244163-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>21.0</b>	1.00	07/13/2024	ND	2.12	106	2.00	5.43	
<b>Toluene*</b>	<b>186</b>	1.00	07/13/2024	ND	2.28	114	2.00	3.81	
<b>Ethylbenzene*</b>	<b>54.5</b>	1.00	07/13/2024	ND	2.35	118	2.00	3.68	
<b>Total Xylenes*</b>	<b>208</b>	3.00	07/13/2024	ND	7.27	121	6.00	3.15	
<b>Total BTEX</b>	<b>470</b>	6.00	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 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
<b>Chloride</b>	<b>2800</b>	16.0	07/12/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>4850</b>	50.0	07/12/2024	ND	200	100	200	0.613		
<b>DRO &gt;C10-C28*</b>	<b>10300</b>	50.0	07/12/2024	ND	197	98.5	200	2.84		
<b>EXT DRO &gt;C28-C36</b>	<b>1850</b>	50.0	07/12/2024	ND						

Surrogate: 1-Chlorooctane 410 % 48.2-134

Surrogate: 1-Chlorooctadecane 170 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 3 (4') (H244163-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>37.8</b>	1.00	07/13/2024	ND	2.12	106	2.00	5.43	
<b>Toluene*</b>	<b>186</b>	1.00	07/13/2024	ND	2.28	114	2.00	3.81	
<b>Ethylbenzene*</b>	<b>78.1</b>	1.00	07/13/2024	ND	2.35	118	2.00	3.68	
<b>Total Xylenes*</b>	<b>280</b>	3.00	07/13/2024	ND	7.27	121	6.00	3.15	
<b>Total BTEX</b>	<b>583</b>	6.00	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 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
<b>Chloride</b>	<b>1880</b>	16.0	07/12/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>8510</b>	50.0	07/12/2024	ND	200	100	200	0.613		
<b>DRO &gt;C10-C28*</b>	<b>14700</b>	50.0	07/12/2024	ND	197	98.5	200	2.84		
<b>EXT DRO &gt;C28-C36</b>	<b>2560</b>	50.0	07/12/2024	ND						

Surrogate: 1-Chlorooctane 617 % 48.2-134

Surrogate: 1-Chlorooctadecane 298 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





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

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July 15, 2024

CONNER MOEHRING  
CARMONA RESOURCES  
310 W WALL ST, SUITE 500  
MIDLAND, TX 79701

RE: DECKARD FEDERAL COM 3H FLOWLINE LEAK (06.21.24)

Enclosed are the results of analyses for samples received by the laboratory on 07/11/24 15:54.

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

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 1 ( 1.5' ) (H244164-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>24.3</b>	5.00	07/13/2024	ND	2.12	106	2.00	5.43	
<b>Toluene*</b>	<b>306</b>	5.00	07/13/2024	ND	2.28	114	2.00	3.81	
<b>Ethylbenzene*</b>	<b>97.4</b>	5.00	07/13/2024	ND	2.35	118	2.00	3.68	
<b>Total Xylenes*</b>	<b>533</b>	15.0	07/13/2024	ND	7.27	121	6.00	3.15	
<b>Total BTEX</b>	<b>960</b>	30.0	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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
<b>Chloride</b>	<b>1100</b>	16.0	07/12/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>12100</b>	50.0	07/12/2024	ND	200	100	200	0.613		
<b>DRO &gt;C10-C28*</b>	<b>24400</b>	50.0	07/12/2024	ND	197	98.5	200	2.84		
<b>EXT DRO &gt;C28-C36</b>	<b>4280</b>	50.0	07/12/2024	ND						

Surrogate: 1-Chlorooctane 1210 % 48.2-134

Surrogate: 1-Chlorooctadecane 579 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 1 ( 2' ) (H244164-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>35.2</b>	2.00	07/13/2024	ND	2.12	106	2.00	5.43	
<b>Toluene*</b>	<b>264</b>	2.00	07/13/2024	ND	2.28	114	2.00	3.81	
<b>Ethylbenzene*</b>	<b>77.4</b>	2.00	07/13/2024	ND	2.35	118	2.00	3.68	
<b>Total Xylenes*</b>	<b>322</b>	6.00	07/13/2024	ND	7.27	121	6.00	3.15	
<b>Total BTEX</b>	<b>699</b>	12.0	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 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
<b>Chloride</b>	<b>4280</b>	16.0	07/12/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>7570</b>	50.0	07/12/2024	ND	200	100	200	0.613		
<b>DRO &gt;C10-C28*</b>	<b>12500</b>	50.0	07/12/2024	ND	197	98.5	200	2.84		
<b>EXT DRO &gt;C28-C36</b>	<b>2180</b>	50.0	07/12/2024	ND						

Surrogate: 1-Chlorooctane 532 % 48.2-134

Surrogate: 1-Chlorooctadecane 242 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 2 ( 1.5' ) (H244164-03)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>15.1</b>	1.00	07/13/2024	ND	2.12	106	2.00	5.43	
<b>Toluene*</b>	<b>198</b>	1.00	07/13/2024	ND	2.28	114	2.00	3.81	
<b>Ethylbenzene*</b>	<b>55.7</b>	1.00	07/13/2024	ND	2.35	118	2.00	3.68	
<b>Total Xylenes*</b>	<b>227</b>	3.00	07/13/2024	ND	7.27	121	6.00	3.15	
<b>Total BTEX</b>	<b>495</b>	6.00	07/13/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2800</b>	16.0	07/12/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>5740</b>	50.0	07/12/2024	ND	200	100	200	0.613	
<b>DRO &gt;C10-C28*</b>	<b>11900</b>	50.0	07/12/2024	ND	197	98.5	200	2.84	
<b>EXT DRO &gt;C28-C36</b>	<b>2010</b>	50.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 492 % 48.2-134

Surrogate: 1-Chlorooctadecane 215 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 2 ( 2' ) (H244164-04)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>16.4</b>	1.00	07/13/2024	ND	2.12	106	2.00	5.43	
<b>Toluene*</b>	<b>163</b>	1.00	07/13/2024	ND	2.28	114	2.00	3.81	
<b>Ethylbenzene*</b>	<b>32.6</b>	1.00	07/13/2024	ND	2.35	118	2.00	3.68	
<b>Total Xylenes*</b>	<b>212</b>	3.00	07/13/2024	ND	7.27	121	6.00	3.15	
<b>Total BTEX</b>	<b>424</b>	6.00	07/13/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1800</b>	16.0	07/12/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>6050</b>	50.0	07/12/2024	ND	200	100	200	0.613	
<b>DRO &gt;C10-C28*</b>	<b>12700</b>	50.0	07/12/2024	ND	197	98.5	200	2.84	
<b>EXT DRO &gt;C28-C36</b>	<b>2190</b>	50.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 514 % 48.2-134

Surrogate: 1-Chlorooctadecane 238 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 3 ( 1.5' ) (H244164-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>11.9</b>	1.00	07/13/2024	ND	2.12	106	2.00	5.43	
<b>Toluene*</b>	<b>129</b>	1.00	07/13/2024	ND	2.28	114	2.00	3.81	
<b>Ethylbenzene*</b>	<b>38.8</b>	1.00	07/13/2024	ND	2.35	118	2.00	3.68	
<b>Total Xylenes*</b>	<b>178</b>	3.00	07/13/2024	ND	7.27	121	6.00	3.15	
<b>Total BTEX</b>	<b>357</b>	6.00	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 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
<b>Chloride</b>	<b>3680</b>	16.0	07/12/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>4220</b>	50.0	07/12/2024	ND	200	100	200	0.613		
<b>DRO &gt;C10-C28*</b>	<b>9010</b>	50.0	07/12/2024	ND	197	98.5	200	2.84		
<b>EXT DRO &gt;C28-C36</b>	<b>1570</b>	50.0	07/12/2024	ND						

Surrogate: 1-Chlorooctane 313 % 48.2-134

Surrogate: 1-Chlorooctadecane 175 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 3 ( 2' ) (H244164-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>15.8</b>	1.00	07/13/2024	ND	2.12	106	2.00	5.43	
<b>Toluene*</b>	<b>175</b>	1.00	07/13/2024	ND	2.28	114	2.00	3.81	
<b>Ethylbenzene*</b>	<b>53.0</b>	1.00	07/13/2024	ND	2.35	118	2.00	3.68	
<b>Total Xylenes*</b>	<b>211</b>	3.00	07/13/2024	ND	7.27	121	6.00	3.15	
<b>Total BTEX</b>	<b>454</b>	6.00	07/13/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3920</b>	16.0	07/12/2024	ND	432	108	400	3.77	QM-07

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>6080</b>	50.0	07/12/2024	ND	200	100	200	0.613		
<b>DRO &gt;C10-C28*</b>	<b>11700</b>	50.0	07/12/2024	ND	197	98.5	200	2.84		
<b>EXT DRO &gt;C28-C36</b>	<b>1890</b>	50.0	07/12/2024	ND						

Surrogate: 1-Chlorooctane 448 % 48.2-134

Surrogate: 1-Chlorooctadecane 182 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H244104-1-10

Project Manager:	Conner Moehring	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-6823	Email:	mcarmona@carmonarresources.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> fromfields <input type="checkbox"/> JRC <input type="checkbox"/> perfund
State of Project:	Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	Deckard Federal Com 3H Flowline Leak (06.21.24)		Turn Around	Pres. Code	ANALYSIS REQUEST										Preservative Codes		
Project Number:	2428		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush												None: NO Cool: Cool HCL: HC H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NASO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC		
Project Location:	Lea County, New Mexico		Due Date:	48 HR											DI Water: H <sub>2</sub> O MeOH: Me HNO <sub>3</sub> : HN NaOH: Na		
Sampler's Name:	IR																
PO #:																	
<b>SAMPLE RECEIPT</b>	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters										
Received Infract:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Correction Factor:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			BTEX 8021B										
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Temperature Reading:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4.12		TPH 8015M ( GRO + DRO + MRO)										
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Corrected Temperature:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			Chloride 4500										
Total Containers:																	
<b>Sample Identification</b>	Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments
1 S-1 (1.5')	7/11/2024		X		G	1	X	X	X	X	X	X	X	X	X		
2 S-1 (2)	7/11/2024		X		G	1	X	X	X	X	X	X	X	X	X		
3 S-2 (1.5')	7/11/2024		X		G	1	X	X	X	X	X	X	X	X	X		
4 S-2 (2)	7/11/2024		X		G	1	X	X	X	X	X	X	X	X	X		
5 S-3 (1.5')	7/11/2024		X		G	1	X	X	X	X	X	X	X	X	X		
10 S-3 (2)	7/11/2024		X		G	1	X	X	X	X	X	X	X	X	X		

Comments: Email to Mike Carmona / mcarmona@carmonarresources.com and Conner Moehring / cmoehring@carmonarresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Mike Carmona</i>	7/11/24 @ 15:54	<i>Conner Moehring</i>	7-11-24 15:54



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

---

July 15, 2024

CONNER MOEHRING  
CARMONA RESOURCES  
310 W WALL ST, SUITE 500  
MIDLAND, TX 79701

RE: DECKARD FEDERAL COM 3H FLOWLINE LEAK (06.21.24)

Enclosed are the results of analyses for samples received by the laboratory on 07/11/24 15:54.

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

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: H 1 (0-0.5') (H244165-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	2.12	106	2.00	5.43	
Toluene*	<0.050	0.050	07/12/2024	ND	2.28	114	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.35	118	2.00	3.68	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.27	121	6.00	3.15	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/12/2024	ND	432	108	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	07/12/2024	ND	200	100	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: H 2 (0-0.5') (H244165-02)**

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	07/12/2024	ND	2.12	106	2.00	5.43	
Toluene*	<0.050	0.050	07/12/2024	ND	2.28	114	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.35	118	2.00	3.68	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.27	121	6.00	3.15	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/12/2024	ND	432	108	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	07/12/2024	ND	200	100	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: H 3 (0-0.5') (H244165-03)**

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	07/12/2024	ND	2.12	106	2.00	5.43	
Toluene*	<0.050	0.050	07/12/2024	ND	2.28	114	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.35	118	2.00	3.68	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.27	121	6.00	3.15	
Total BTEX	<0.300	0.300	07/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/12/2024	ND	432	108	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	07/12/2024	ND	200	100	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: H 4 (0-0.5') (H244165-04)**

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	07/12/2024	ND	2.12	106	2.00	5.43	
<b>Toluene*</b>	<b>0.160</b>	0.050	07/12/2024	ND	2.28	114	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.35	118	2.00	3.68	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.27	121	6.00	3.15	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/12/2024	ND	432	108	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	07/12/2024	ND	200	100	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: H 5 (0-0.5') (H244165-05)**

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	07/12/2024	ND	2.12	106	2.00	5.43	
Toluene*	<0.050	0.050	07/12/2024	ND	2.28	114	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.35	118	2.00	3.68	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.27	121	6.00	3.15	
Total BTEX	<0.300	0.300	07/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/12/2024	ND	432	108	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	07/12/2024	ND	200	100	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: H 6 (0-0.5') (H244165-06)**

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	07/12/2024	ND	2.12	106	2.00	5.43	
Toluene*	<0.050	0.050	07/12/2024	ND	2.28	114	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.35	118	2.00	3.68	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.27	121	6.00	3.15	
Total BTEX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/12/2024	ND	432	108	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	07/12/2024	ND	200	100	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager





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

---

July 15, 2024

CONNER MOEHRING  
CARMONA RESOURCES  
310 W WALL ST, SUITE 500  
MIDLAND, TX 79701

RE: DECKARD FEDERAL COM 3H FLOWLINE LEAK (06.21.24)

Enclosed are the results of analyses for samples received by the laboratory on 07/11/24 15:54.

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

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 1 ( 5' ) (H244166-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>64.5</b>	5.00	07/13/2024	ND	2.12	106	2.00	5.43	
<b>Toluene*</b>	<b>395</b>	5.00	07/13/2024	ND	2.28	114	2.00	3.81	
<b>Ethylbenzene*</b>	<b>100</b>	5.00	07/13/2024	ND	2.35	118	2.00	3.68	
<b>Total Xylenes*</b>	<b>420</b>	15.0	07/13/2024	ND	7.27	121	6.00	3.15	
<b>Total BTEX</b>	<b>979</b>	30.0	07/13/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3840</b>	16.0	07/12/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>10000</b>	50.0	07/12/2024	ND	200	100	200	0.613		
<b>DRO &gt;C10-C28*</b>	<b>16900</b>	50.0	07/12/2024	ND	197	98.5	200	2.84		
<b>EXT DRO &gt;C28-C36</b>	<b>2860</b>	50.0	07/12/2024	ND						

Surrogate: 1-Chlorooctane 716 % 48.2-134

Surrogate: 1-Chlorooctadecane 269 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 1 ( 6' ) (H244166-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>44.0</b>	5.00	07/13/2024	ND	2.12	106	2.00	5.43	
<b>Toluene*</b>	<b>357</b>	5.00	07/13/2024	ND	2.28	114	2.00	3.81	
<b>Ethylbenzene*</b>	<b>98.3</b>	5.00	07/13/2024	ND	2.35	118	2.00	3.68	
<b>Total Xylenes*</b>	<b>417</b>	15.0	07/13/2024	ND	7.27	121	6.00	3.15	
<b>Total BTEX</b>	<b>916</b>	30.0	07/13/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3040</b>	16.0	07/12/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>9830</b>	50.0	07/13/2024	ND	200	100	200	0.613		
<b>DRO &gt;C10-C28*</b>	<b>18300</b>	50.0	07/13/2024	ND	197	98.5	200	2.84		
<b>EXT DRO &gt;C28-C36</b>	<b>3070</b>	50.0	07/13/2024	ND						

Surrogate: 1-Chlorooctane 781 % 48.2-134

Surrogate: 1-Chlorooctadecane 298 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 1 ( 7' ) (H244166-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>63.2</b>	5.00	07/13/2024	ND	2.12	106	2.00	5.43	
<b>Toluene*</b>	<b>411</b>	5.00	07/13/2024	ND	2.28	114	2.00	3.81	
<b>Ethylbenzene*</b>	<b>99.0</b>	5.00	07/13/2024	ND	2.35	118	2.00	3.68	
<b>Total Xylenes*</b>	<b>413</b>	15.0	07/13/2024	ND	7.27	121	6.00	3.15	
<b>Total BTEX</b>	<b>986</b>	30.0	07/13/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2480</b>	16.0	07/12/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>9560</b>	50.0	07/13/2024	ND	200	100	200	0.613		
<b>DRO &gt;C10-C28*</b>	<b>14500</b>	50.0	07/13/2024	ND	197	98.5	200	2.84		
<b>EXT DRO &gt;C28-C36</b>	<b>2450</b>	50.0	07/13/2024	ND						

Surrogate: 1-Chlorooctane 632 % 48.2-134

Surrogate: 1-Chlorooctadecane 262 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 1 ( 8' ) (H244166-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>32.5</b>	2.00	07/13/2024	ND	2.12	106	2.00	5.43	
<b>Toluene*</b>	<b>295</b>	2.00	07/13/2024	ND	2.28	114	2.00	3.81	
<b>Ethylbenzene*</b>	<b>83.5</b>	2.00	07/13/2024	ND	2.35	118	2.00	3.68	
<b>Total Xylenes*</b>	<b>333</b>	6.00	07/13/2024	ND	7.27	121	6.00	3.15	
<b>Total BTEX</b>	<b>744</b>	12.0	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2600</b>	16.0	07/12/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>7870</b>	50.0	07/13/2024	ND	200	100	200	0.613		
<b>DRO &gt;C10-C28*</b>	<b>15000</b>	50.0	07/13/2024	ND	197	98.5	200	2.84		
<b>EXT DRO &gt;C28-C36</b>	<b>2380</b>	50.0	07/13/2024	ND						

Surrogate: 1-Chlorooctane 641 % 48.2-134

Surrogate: 1-Chlorooctadecane 240 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 2 ( 5' ) (H244166-05)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>10.3</b>	2.00	07/15/2024	ND	1.98	98.9	2.00	0.0164	QM-07	
<b>Toluene*</b>	<b>73.3</b>	2.00	07/15/2024	ND	1.97	98.6	2.00	0.806	QM-07	
<b>Ethylbenzene*</b>	<b>17.6</b>	2.00	07/15/2024	ND	2.09	104	2.00	1.68	QM-07	
<b>Total Xylenes*</b>	<b>135</b>	6.00	07/15/2024	ND	6.15	103	6.00	1.82	QM-07	
<b>Total BTEX</b>	<b>236</b>	12.0	07/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>896</b>	16.0	07/12/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10*</b>	<b>4230</b>	50.0	07/13/2024	ND	223	111	200	2.88	QM-07, QR-03		
<b>DRO &gt;C10-C28*</b>	<b>11200</b>	50.0	07/13/2024	ND	219	110	200	7.75	QM-07, QR-03		
<b>EXT DRO &gt;C28-C36</b>	<b>1420</b>	50.0	07/13/2024	ND							

Surrogate: 1-Chlorooctane 190 % 48.2-134

Surrogate: 1-Chlorooctadecane 215 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 2 ( 6' ) (H244166-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>3.26</b>	0.500	07/13/2024	ND	1.98	98.9	2.00	0.0164	
<b>Toluene*</b>	<b>26.3</b>	0.500	07/13/2024	ND	1.97	98.6	2.00	0.806	
<b>Ethylbenzene*</b>	<b>5.05</b>	0.500	07/13/2024	ND	2.09	104	2.00	1.68	
<b>Total Xylenes*</b>	<b>65.1</b>	1.50	07/13/2024	ND	6.15	103	6.00	1.82	
<b>Total BTEX</b>	<b>99.7</b>	3.00	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>496</b>	16.0	07/12/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>2310</b>	50.0	07/13/2024	ND	223	111	200	2.88		
<b>DRO &gt;C10-C28*</b>	<b>7900</b>	50.0	07/13/2024	ND	219	110	200	7.75		
<b>EXT DRO &gt;C28-C36</b>	<b>1010</b>	50.0	07/13/2024	ND						

Surrogate: 1-Chlorooctane 167 % 48.2-134

Surrogate: 1-Chlorooctadecane 194 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 2 ( 7' ) (H244166-07)**

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	07/13/2024	ND	1.98	98.9	2.00	0.0164	
<b>Toluene*</b>	<b>0.121</b>	0.050	07/13/2024	ND	1.97	98.6	2.00	0.806	
Ethylbenzene*	<0.050	0.050	07/13/2024	ND	2.09	104	2.00	1.68	
<b>Total Xylenes*</b>	<b>0.206</b>	0.150	07/13/2024	ND	6.15	103	6.00	1.82	
<b>Total BTEX</b>	<b>0.327</b>	0.300	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	07/12/2024	ND	432	108	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	07/13/2024	ND	223	111	200	2.88	
<b>DRO &gt;C10-C28*</b>	<b>128</b>	10.0	07/13/2024	ND	219	110	200	7.75	
<b>EXT DRO &gt;C28-C36</b>	<b>12.0</b>	10.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 2 ( 8' ) (H244166-08)**

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	07/12/2024	ND	1.98	98.9	2.00	0.0164	
<b>Toluene*</b>	<b>0.149</b>	0.050	07/12/2024	ND	1.97	98.6	2.00	0.806	
<b>Ethylbenzene*</b>	<b>0.144</b>	0.050	07/12/2024	ND	2.09	104	2.00	1.68	
<b>Total Xylenes*</b>	<b>0.388</b>	0.150	07/12/2024	ND	6.15	103	6.00	1.82	
<b>Total BTEX</b>	<b>0.681</b>	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	07/12/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>20.3</b>	10.0	07/13/2024	ND	223	111	200	2.88	
<b>DRO &gt;C10-C28*</b>	<b>303</b>	10.0	07/13/2024	ND	219	110	200	7.75	
<b>EXT DRO &gt;C28-C36</b>	<b>41.4</b>	10.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 3 ( 5' ) (H244166-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>36.5</b>	2.00	07/13/2024	ND	1.98	98.9	2.00	0.0164	
<b>Toluene*</b>	<b>233</b>	2.00	07/13/2024	ND	1.97	98.6	2.00	0.806	
<b>Ethylbenzene*</b>	<b>84.0</b>	2.00	07/13/2024	ND	2.09	104	2.00	1.68	
<b>Total Xylenes*</b>	<b>302</b>	6.00	07/13/2024	ND	6.15	103	6.00	1.82	
<b>Total BTEX</b>	<b>655</b>	12.0	07/13/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1500</b>	16.0	07/12/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>9140</b>	50.0	07/13/2024	ND	223	111	200	2.88		
<b>DRO &gt;C10-C28*</b>	<b>15600</b>	50.0	07/13/2024	ND	219	110	200	7.75		
<b>EXT DRO &gt;C28-C36</b>	<b>1910</b>	50.0	07/13/2024	ND						

Surrogate: 1-Chlorooctane 234 % 48.2-134

Surrogate: 1-Chlorooctadecane 270 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 3 ( 6' ) (H244166-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>39.3</b>	2.00	07/13/2024	ND	1.98	98.9	2.00	0.0164	
<b>Toluene*</b>	<b>247</b>	2.00	07/13/2024	ND	1.97	98.6	2.00	0.806	
<b>Ethylbenzene*</b>	<b>88.7</b>	2.00	07/13/2024	ND	2.09	104	2.00	1.68	
<b>Total Xylenes*</b>	<b>316</b>	6.00	07/13/2024	ND	6.15	103	6.00	1.82	
<b>Total BTEX</b>	<b>691</b>	12.0	07/13/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1880</b>	16.0	07/12/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>10200</b>	50.0	07/13/2024	ND	223	111	200	2.88		
<b>DRO &gt;C10-C28*</b>	<b>17700</b>	50.0	07/13/2024	ND	219	110	200	7.75		
<b>EXT DRO &gt;C28-C36</b>	<b>2190</b>	50.0	07/13/2024	ND						

Surrogate: 1-Chlorooctane 260 % 48.2-134

Surrogate: 1-Chlorooctadecane 308 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 3 ( 7' ) (H244166-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>78.9</b>	2.00	07/13/2024	ND	1.98	98.9	2.00	0.0164	
<b>Toluene*</b>	<b>397</b>	2.00	07/13/2024	ND	1.97	98.6	2.00	0.806	
<b>Ethylbenzene*</b>	<b>133</b>	2.00	07/13/2024	ND	2.09	104	2.00	1.68	
<b>Total Xylenes*</b>	<b>466</b>	6.00	07/13/2024	ND	6.15	103	6.00	1.82	
<b>Total BTEX</b>	<b>1080</b>	12.0	07/13/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1280</b>	16.0	07/12/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>15300</b>	50.0	07/13/2024	ND	223	111	200	2.88		
<b>DRO &gt;C10-C28*</b>	<b>23100</b>	50.0	07/13/2024	ND	219	110	200	7.75		
<b>EXT DRO &gt;C28-C36</b>	<b>2880</b>	50.0	07/13/2024	ND						

Surrogate: 1-Chlorooctane 331 % 48.2-134

Surrogate: 1-Chlorooctadecane 403 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 CONNER MOEHRING  
 310 W WALL ST, SUITE 500  
 MIDLAND TX, 79701  
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

**Sample ID: S - 3 ( 8' ) (H244166-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>38.2</b>	2.00	07/13/2024	ND	1.98	98.9	2.00	0.0164	
<b>Toluene*</b>	<b>216</b>	2.00	07/13/2024	ND	1.97	98.6	2.00	0.806	
<b>Ethylbenzene*</b>	<b>76.7</b>	2.00	07/13/2024	ND	2.09	104	2.00	1.68	
<b>Total Xylenes*</b>	<b>274</b>	6.00	07/13/2024	ND	6.15	103	6.00	1.82	
<b>Total BTEX</b>	<b>605</b>	12.0	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1460</b>	16.0	07/12/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>8870</b>	50.0	07/13/2024	ND	223	111	200	2.88		
<b>DRO &gt;C10-C28*</b>	<b>14900</b>	50.0	07/13/2024	ND	219	110	200	7.75		
<b>EXT DRO &gt;C28-C36</b>	<b>1820</b>	50.0	07/13/2024	ND						

Surrogate: 1-Chlorooctane 250 % 48.2-134

Surrogate: 1-Chlorooctadecane 264 % 49.1-148

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-03 Multiple analyses indicate the percent recovery exceeds the Quality Control acceptance criteria due to a matrix effect.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H24411010

Page 1 of 2

Project Manager:	Comer Moehring	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-6823	Email:	mcarmona@carmonaresources.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Row:fields <input type="checkbox"/> RC <input type="checkbox"/> Pertund <input type="checkbox"/>	
State of Project:	
Reporting Level: Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> AdAPT <input type="checkbox"/> Other:	

Project Name:	Deckard Federal Com 3H Flowline Leak (06.21.24)	Turn Around	Pres. Code
Project Number:	2428	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	
Project Location:	Lea County, New Mexico	Due Date:	48 HR
Sampler's Name:	IR		

PO #:		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	N/A		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	NA	Temperature Reading:	U.T.C.		
Total Containers:		Corrected Temperature:					

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Sample Comments
							BTEX 8021B	TPH 8015M ( GRO + DRO + MRO)	Chloride 4500	
S-1 (5)	7/11/2024		X		G	1	X	X	X	
S-1 (6)	7/11/2024		X		G	1	X	X	X	
S-1 (7)	7/11/2024		X		G	1	X	X	X	
S-1 (8)	7/11/2024		X		G	1	X	X	X	
S-2 (5)	7/11/2024		X		G	1	X	X	X	
S-2 (6)	7/11/2024		X		G	1	X	X	X	
S-2 (7)	7/11/2024		X		G	1	X	X	X	
S-2 (8)	7/11/2024		X		G	1	X	X	X	
S-3 (5)	7/11/2024		X		G	1	X	X	X	
S-3 (6)	7/11/2024		X		G	1	X	X	X	

Comments: Email to Mike Carmona / mcarmona@carmonaresources.com and Comer Moehring / cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Lea Carmona</i>	7/11/24 @ 15:57	<i>OPAVES</i>	7/11/24/15:57





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

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October 04, 2024

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: DECKARD FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 09/30/24 13:31.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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  
 SAM ABBOTT  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 1 (0-1) (H245920-01)**

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	10/01/2024	ND	2.05	103	2.00	1.22	
Toluene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.831	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.11	105	2.00	0.516	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.28	105	6.00	0.468	
Total BTEX	<0.300	0.300	10/01/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/01/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 1 (2-3) (H245920-02)**

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	10/01/2024	ND	2.05	103	2.00	1.22	
Toluene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.831	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.11	105	2.00	0.516	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.28	105	6.00	0.468	
Total BTEX	<0.300	0.300	10/01/2024	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	10/01/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 1 (3-4) (H245920-03)**

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	10/01/2024	ND	2.05	103	2.00	1.22	
Toluene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.831	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.11	105	2.00	0.516	
<b>Total Xylenes*</b>	<b>0.198</b>	0.150	10/01/2024	ND	6.28	105	6.00	0.468	
Total BTEX	<0.300	0.300	10/01/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	10/01/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
<b>DRO &gt;C10-C28*</b>	<b>162</b>	10.0	10/01/2024	ND	200	100	200	2.48	
<b>EXT DRO &gt;C28-C36</b>	<b>32.2</b>	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 1 (4-5) (H245920-04)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/01/2024	ND	2.05	103	2.00	1.22	
<b>Toluene*</b>	<b>9.28</b>	0.200	10/01/2024	ND	2.10	105	2.00	0.831	
<b>Ethylbenzene*</b>	<b>7.53</b>	0.200	10/01/2024	ND	2.11	105	2.00	0.516	
<b>Total Xylenes*</b>	<b>40.7</b>	0.600	10/01/2024	ND	6.28	105	6.00	0.468	
<b>Total BTEX</b>	<b>57.5</b>	1.20	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 145 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1010</b>	16.0	10/01/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>1090</b>	10.0	10/01/2024	ND	213	107	200	1.74	
<b>DRO &gt;C10-C28*</b>	<b>8250</b>	10.0	10/01/2024	ND	200	100	200	2.48	
<b>EXT DRO &gt;C28-C36</b>	<b>1180</b>	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 214 % 48.2-134

Surrogate: 1-Chlorooctadecane 155 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 1 (6-7) (H245920-05)**

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	10/01/2024	ND	2.05	103	2.00	1.22	
Toluene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.831	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.11	105	2.00	0.516	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.28	105	6.00	0.468	
Total BTEX	<0.300	0.300	10/01/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	10/01/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
<b>DRO &gt;C10-C28*</b>	<b>176</b>	10.0	10/01/2024	ND	200	100	200	2.48	
<b>EXT DRO &gt;C28-C36</b>	<b>31.7</b>	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 1 (8-9) (H245920-06)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>2.44</b>	0.500	10/01/2024	ND	2.05	103	2.00	1.22	
<b>Toluene*</b>	<b>51.9</b>	0.500	10/01/2024	ND	2.10	105	2.00	0.831	
<b>Ethylbenzene*</b>	<b>20.2</b>	0.500	10/01/2024	ND	2.11	105	2.00	0.516	
<b>Total Xylenes*</b>	<b>110</b>	1.50	10/01/2024	ND	6.28	105	6.00	0.468	
<b>Total BTEX</b>	<b>185</b>	3.00	10/01/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>624</b>	16.0	10/01/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>2640</b>	10.0	10/01/2024	ND	213	107	200	1.74	
<b>DRO &gt;C10-C28*</b>	<b>7750</b>	10.0	10/01/2024	ND	200	100	200	2.48	
<b>EXT DRO &gt;C28-C36</b>	<b>1050</b>	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 268 % 48.2-134

Surrogate: 1-Chlorooctadecane 147 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 1 (9-10') (H245920-07)**

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	10/02/2024	ND	2.05	103	2.00	1.22	
<b>Toluene*</b>	<b>0.290</b>	0.050	10/02/2024	ND	2.10	105	2.00	0.831	
<b>Ethylbenzene*</b>	<b>0.185</b>	0.050	10/02/2024	ND	2.11	105	2.00	0.516	
<b>Total Xylenes*</b>	<b>3.99</b>	0.150	10/02/2024	ND	6.28	105	6.00	0.468	
<b>Total BTEX</b>	<b>4.47</b>	0.300	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 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
<b>Chloride</b>	<b>1340</b>	16.0	10/01/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>261</b>	10.0	10/01/2024	ND	213	107	200	1.74	
<b>DRO &gt;C10-C28*</b>	<b>1480</b>	10.0	10/01/2024	ND	200	100	200	2.48	
<b>EXT DRO &gt;C28-C36</b>	<b>217</b>	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 1 (14-15') (H245920-08)**

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	10/01/2024	ND	2.05	103	2.00	1.22	
Toluene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.831	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.11	105	2.00	0.516	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.28	105	6.00	0.468	
Total BTEX	<0.300	0.300	10/01/2024	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	128	16.0	10/01/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 1 (19-20') (H245920-09)**

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	10/01/2024	ND	2.05	103	2.00	1.22	
Toluene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.831	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.11	105	2.00	0.516	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.28	105	6.00	0.468	
Total BTEX	<0.300	0.300	10/01/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>240</b>	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
<b>DRO &gt;C10-C28*</b>	<b>103</b>	10.0	10/01/2024	ND	200	100	200	2.48	
<b>EXT DRO &gt;C28-C36</b>	<b>12.3</b>	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 1 (24-25') (H245920-10)**

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	10/01/2024	ND	2.05	103	2.00	1.22	
Toluene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.831	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.11	105	2.00	0.516	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.28	105	6.00	0.468	
Total BTEX	<0.300	0.300	10/01/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>240</b>	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
<b>DRO &gt;C10-C28*</b>	<b>84.6</b>	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 2 (0-1) (H245920-11)**

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	10/01/2024	ND	2.05	103	2.00	1.22	
<b>Toluene*</b>	<b>0.189</b>	0.050	10/01/2024	ND	2.10	105	2.00	0.831	
<b>Ethylbenzene*</b>	<b>0.252</b>	0.050	10/01/2024	ND	2.11	105	2.00	0.516	
<b>Total Xylenes*</b>	<b>4.51</b>	0.150	10/01/2024	ND	6.28	105	6.00	0.468	
<b>Total BTEX</b>	<b>4.95</b>	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 150 % 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
<b>Chloride</b>	<b>2280</b>	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>318</b>	10.0	10/01/2024	ND	213	107	200	1.74	
<b>DRO &gt;C10-C28*</b>	<b>5870</b>	10.0	10/01/2024	ND	200	100	200	2.48	
<b>EXT DRO &gt;C28-C36</b>	<b>885</b>	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 2 (2-3) (H245920-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>19.2</b>	2.00	10/02/2024	ND	2.07	104	2.00	1.03	QM-07
<b>Toluene*</b>	<b>208</b>	2.00	10/02/2024	ND	2.04	102	2.00	3.21	QM-07
<b>Ethylbenzene*</b>	<b>40.9</b>	2.00	10/02/2024	ND	2.10	105	2.00	4.33	QM-07
<b>Total Xylenes*</b>	<b>258</b>	6.00	10/02/2024	ND	6.31	105	6.00	4.35	QM-07
<b>Total BTEX</b>	<b>527</b>	12.0	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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
<b>Chloride</b>	<b>3040</b>	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>7690</b>	50.0	10/02/2024	ND	213	107	200	1.74		
<b>DRO &gt;C10-C28*</b>	<b>14900</b>	50.0	10/02/2024	ND	200	100	200	2.48		
<b>EXT DRO &gt;C28-C36</b>	<b>1990</b>	50.0	10/02/2024	ND						

Surrogate: 1-Chlorooctane 552 % 48.2-134

Surrogate: 1-Chlorooctadecane 218 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 2 (3-4) (H245920-13)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>16.6</b>	2.00	10/02/2024	ND	2.07	104	2.00	1.03	
<b>Toluene*</b>	<b>194</b>	2.00	10/02/2024	ND	2.04	102	2.00	3.21	
<b>Ethylbenzene*</b>	<b>54.8</b>	2.00	10/02/2024	ND	2.10	105	2.00	4.33	
<b>Total Xylenes*</b>	<b>203</b>	6.00	10/02/2024	ND	6.31	105	6.00	4.35	
<b>Total BTEX</b>	<b>468</b>	12.0	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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
<b>Chloride</b>	<b>912</b>	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>7750</b>	50.0	10/02/2024	ND	213	107	200	1.74		
<b>DRO &gt;C10-C28*</b>	<b>13500</b>	50.0	10/02/2024	ND	200	100	200	2.48		
<b>EXT DRO &gt;C28-C36</b>	<b>1820</b>	50.0	10/02/2024	ND						

Surrogate: 1-Chlorooctane 530 % 48.2-134

Surrogate: 1-Chlorooctadecane 234 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 2 (4-5) (H245920-14)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	10/02/2024	ND	2.07	104	2.00	1.03	
<b>Toluene*</b>	<b>36.6</b>	1.00	10/02/2024	ND	2.04	102	2.00	3.21	
<b>Ethylbenzene*</b>	<b>24.4</b>	1.00	10/02/2024	ND	2.10	105	2.00	4.33	
<b>Total Xylenes*</b>	<b>97.3</b>	3.00	10/02/2024	ND	6.31	105	6.00	4.35	
<b>Total BTEX</b>	<b>158</b>	6.00	10/02/2024	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
<b>Chloride</b>	<b>32.0</b>	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>2570</b>	10.0	10/01/2024	ND	213	107	200	1.74		
<b>DRO &gt;C10-C28*</b>	<b>7820</b>	10.0	10/01/2024	ND	200	100	200	2.48		
<b>EXT DRO &gt;C28-C36</b>	<b>1040</b>	10.0	10/01/2024	ND						

Surrogate: 1-Chlorooctane 292 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 2 (6-7) (H245920-15)**

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	10/01/2024	ND	2.07	104	2.00	1.03	
<b>Toluene*</b>	<b>0.151</b>	0.050	10/01/2024	ND	2.04	102	2.00	3.21	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	4.33	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.31	105	6.00	4.35	
Total BTEX	<0.300	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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
<b>Chloride</b>	<b>80.0</b>	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 2 (8-9) (H245920-16)**

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	10/01/2024	ND	2.07	104	2.00	1.03	
Toluene*	<0.050	0.050	10/01/2024	ND	2.04	102	2.00	3.21	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	4.33	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.31	105	6.00	4.35	
Total BTEX	<0.300	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	31.5	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 2 (9-10) (H245920-17)**

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	10/01/2024	ND	2.07	104	2.00	1.03	
Toluene*	<0.050	0.050	10/01/2024	ND	2.04	102	2.00	3.21	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	4.33	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.31	105	6.00	4.35	
Total BTEX	<0.300	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	2000	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 2 (14-15) (H245920-18)**

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	10/01/2024	ND	2.07	104	2.00	1.03	
Toluene*	<0.050	0.050	10/01/2024	ND	2.04	102	2.00	3.21	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	4.33	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.31	105	6.00	4.35	
Total BTEX	<0.300	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	224	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 2 (19-20) (H245920-19)**

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	10/01/2024	ND	2.07	104	2.00	1.03	
Toluene*	<0.050	0.050	10/01/2024	ND	2.04	102	2.00	3.21	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	4.33	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.31	105	6.00	4.35	
Total BTEX	<0.300	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	32.0	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 3 (0-1) (H245920-20)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.115</b>	0.050	10/01/2024	ND	2.07	104	2.00	1.03	
<b>Toluene*</b>	<b>0.352</b>	0.050	10/01/2024	ND	2.04	102	2.00	3.21	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	4.33	
<b>Total Xylenes*</b>	<b>0.241</b>	0.150	10/01/2024	ND	6.31	105	6.00	4.35	
<b>Total BTEX</b>	<b>0.708</b>	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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
<b>Chloride</b>	<b>96.0</b>	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>24.2</b>	10.0	10/01/2024	ND	213	107	200	1.74	
<b>DRO &gt;C10-C28*</b>	<b>5610</b>	10.0	10/01/2024	ND	200	100	200	2.48	
<b>EXT DRO &gt;C28-C36</b>	<b>1440</b>	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 3 (2-3) (H245920-21)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>11.9</b>	2.00	10/02/2024	ND	2.07	104	2.00	1.03	
<b>Toluene*</b>	<b>100</b>	2.00	10/02/2024	ND	2.04	102	2.00	3.21	
<b>Ethylbenzene*</b>	<b>16.0</b>	2.00	10/02/2024	ND	2.10	105	2.00	4.33	
<b>Total Xylenes*</b>	<b>158</b>	6.00	10/02/2024	ND	6.31	105	6.00	4.35	
<b>Total BTEX</b>	<b>287</b>	12.0	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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
<b>Chloride</b>	<b>2270</b>	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>2770</b>	10.0	10/01/2024	ND	179	89.6	200	2.52	QM-07
<b>DRO &gt;C10-C28*</b>	<b>6660</b>	10.0	10/01/2024	ND	179	89.6	200	5.60	QM-07
<b>EXT DRO &gt;C28-C36</b>	<b>1080</b>	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 134 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 3 (4-5) (H245920-22)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>12.1</b>	2.00	10/02/2024	ND	2.07	104	2.00	1.03	
<b>Toluene*</b>	<b>148</b>	2.00	10/02/2024	ND	2.04	102	2.00	3.21	
<b>Ethylbenzene*</b>	<b>41.4</b>	2.00	10/02/2024	ND	2.10	105	2.00	4.33	
<b>Total Xylenes*</b>	<b>190</b>	6.00	10/02/2024	ND	6.31	105	6.00	4.35	
<b>Total BTEX</b>	<b>392</b>	12.0	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1360</b>	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>3680</b>	10.0	10/01/2024	ND	179	89.6	200	2.52		
<b>DRO &gt;C10-C28*</b>	<b>8130</b>	10.0	10/01/2024	ND	179	89.6	200	5.60		
<b>EXT DRO &gt;C28-C36</b>	<b>1190</b>	10.0	10/01/2024	ND						

Surrogate: 1-Chlorooctane 214 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 3 (6-7) (H245920-23)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>22.8</b>	2.00	10/02/2024	ND	2.07	104	2.00	1.03	
<b>Toluene*</b>	<b>234</b>	2.00	10/02/2024	ND	2.04	102	2.00	3.21	
<b>Ethylbenzene*</b>	<b>64.4</b>	2.00	10/02/2024	ND	2.10	105	2.00	4.33	
<b>Total Xylenes*</b>	<b>270</b>	6.00	10/02/2024	ND	6.31	105	6.00	4.35	
<b>Total BTEX</b>	<b>591</b>	12.0	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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
<b>Chloride</b>	<b>1520</b>	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>7430</b>	50.0	10/02/2024	ND	179	89.6	200	2.52		
<b>DRO &gt;C10-C28*</b>	<b>14300</b>	50.0	10/02/2024	ND	179	89.6	200	5.60		
<b>EXT DRO &gt;C28-C36</b>	<b>2050</b>	50.0	10/02/2024	ND						

Surrogate: 1-Chlorooctane 591 % 48.2-134

Surrogate: 1-Chlorooctadecane 234 % 49.1-148

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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 3 (8-9) (H245920-24)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>14.3</b>	2.00	10/02/2024	ND	2.07	104	2.00	1.03	
<b>Toluene*</b>	<b>168</b>	2.00	10/02/2024	ND	2.04	102	2.00	3.21	
<b>Ethylbenzene*</b>	<b>50.0</b>	2.00	10/02/2024	ND	2.10	105	2.00	4.33	
<b>Total Xylenes*</b>	<b>215</b>	6.00	10/02/2024	ND	6.31	105	6.00	4.35	
<b>Total BTEX</b>	<b>447</b>	12.0	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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
<b>Chloride</b>	<b>512</b>	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>4960</b>	10.0	10/01/2024	ND	179	89.6	200	2.52		
<b>DRO &gt;C10-C28*</b>	<b>9990</b>	10.0	10/01/2024	ND	179	89.6	200	5.60		
<b>EXT DRO &gt;C28-C36</b>	<b>1380</b>	10.0	10/01/2024	ND						

Surrogate: 1-Chlorooctane 163 % 48.2-134

Surrogate: 1-Chlorooctadecane 193 % 49.1-148

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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 3 (9-10) (H245920-25)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.07	104	2.00	1.03	
Toluene*	<0.050	0.050	10/01/2024	ND	2.04	102	2.00	3.21	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	4.33	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.31	105	6.00	4.35	
Total BTEX	<0.300	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	179	89.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	179	89.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 3 (14-15) (H245920-26)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.07	104	2.00	1.03		
Toluene*	<0.050	0.050	10/01/2024	ND	2.04	102	2.00	3.21		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	4.33		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.31	105	6.00	4.35		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	80.0	16.0	10/01/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	179	89.6	200	2.52		
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	179	89.6	200	5.60		
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND						

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 4 (0-1) (H245920-27)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.204</b>	0.050	10/03/2024	ND	2.07	104	2.00	1.03	
<b>Toluene*</b>	<b>0.752</b>	0.050	10/03/2024	ND	2.04	102	2.00	3.21	
<b>Ethylbenzene*</b>	<b>0.760</b>	0.050	10/03/2024	ND	2.10	105	2.00	4.33	
<b>Total Xylenes*</b>	<b>5.71</b>	0.150	10/03/2024	ND	6.31	105	6.00	4.35	
<b>Total BTEX</b>	<b>7.43</b>	0.300	10/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 219 % 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
<b>Chloride</b>	<b>1150</b>	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>436</b>	10.0	10/01/2024	ND	179	89.6	200	2.52	
<b>DRO &gt;C10-C28*</b>	<b>5560</b>	10.0	10/01/2024	ND	179	89.6	200	5.60	
<b>EXT DRO &gt;C28-C36</b>	<b>1010</b>	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 4 (2-3) (H245920-28)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>42.7</b>	2.00	10/02/2024	ND	2.07	104	2.00	1.03	
<b>Toluene*</b>	<b>201</b>	2.00	10/02/2024	ND	2.04	102	2.00	3.21	
<b>Ethylbenzene*</b>	<b>47.9</b>	2.00	10/02/2024	ND	2.10	105	2.00	4.33	
<b>Total Xylenes*</b>	<b>195</b>	6.00	10/02/2024	ND	6.31	105	6.00	4.35	
<b>Total BTEX</b>	<b>487</b>	12.0	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4720</b>	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>4320</b>	10.0	10/01/2024	ND	179	89.6	200	2.52		
<b>DRO &gt;C10-C28*</b>	<b>7130</b>	10.0	10/01/2024	ND	179	89.6	200	5.60		
<b>EXT DRO &gt;C28-C36</b>	<b>1010</b>	10.0	10/01/2024	ND						

Surrogate: 1-Chlorooctane 217 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 4 (3-4) (H245920-29)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>31.4</b>	5.00	10/02/2024	ND	2.07	104	2.00	1.03	
<b>Toluene*</b>	<b>236</b>	5.00	10/02/2024	ND	2.04	102	2.00	3.21	
<b>Ethylbenzene*</b>	<b>61.6</b>	5.00	10/02/2024	ND	2.10	105	2.00	4.33	
<b>Total Xylenes*</b>	<b>249</b>	15.0	10/02/2024	ND	6.31	105	6.00	4.35	
<b>Total BTEX</b>	<b>578</b>	30.0	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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
<b>Chloride</b>	<b>3520</b>	16.0	10/01/2024	ND	416	104	400	7.41	QM-07

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>6980</b>	50.0	10/02/2024	ND	179	89.6	200	2.52		
<b>DRO &gt;C10-C28*</b>	<b>11800</b>	50.0	10/02/2024	ND	179	89.6	200	5.60		
<b>EXT DRO &gt;C28-C36</b>	<b>1700</b>	50.0	10/02/2024	ND						

Surrogate: 1-Chlorooctane 498 % 48.2-134

Surrogate: 1-Chlorooctadecane 195 % 49.1-148

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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 4 (4-5) (H245920-30)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>13.3</b>	2.00	10/02/2024	ND	2.07	104	2.00	1.03	
<b>Toluene*</b>	<b>141</b>	2.00	10/02/2024	ND	2.04	102	2.00	3.21	
<b>Ethylbenzene*</b>	<b>41.0</b>	2.00	10/02/2024	ND	2.10	105	2.00	4.33	
<b>Total Xylenes*</b>	<b>176</b>	6.00	10/02/2024	ND	6.31	105	6.00	4.35	
<b>Total BTEX</b>	<b>371</b>	12.0	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2000</b>	16.0	10/01/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>4170</b>	10.0	10/01/2024	ND	179	89.6	200	2.52		
<b>DRO &gt;C10-C28*</b>	<b>8430</b>	10.0	10/01/2024	ND	179	89.6	200	5.60		
<b>EXT DRO &gt;C28-C36</b>	<b>1160</b>	10.0	10/01/2024	ND						

Surrogate: 1-Chlorooctane 237 % 48.2-134

Surrogate: 1-Chlorooctadecane 162 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 4 (6-7) (H245920-31)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>12.6</b>	2.00	10/02/2024	ND	2.07	104	2.00	1.03	
<b>Toluene*</b>	<b>130</b>	2.00	10/02/2024	ND	2.04	102	2.00	3.21	
<b>Ethylbenzene*</b>	<b>36.1</b>	2.00	10/02/2024	ND	2.10	105	2.00	4.33	
<b>Total Xylenes*</b>	<b>166</b>	6.00	10/02/2024	ND	6.31	105	6.00	4.35	
<b>Total BTEX</b>	<b>345</b>	12.0	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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
<b>Chloride</b>	<b>1880</b>	16.0	10/01/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>3500</b>	10.0	10/01/2024	ND	179	89.6	200	2.52		
<b>DRO &gt;C10-C28*</b>	<b>7500</b>	10.0	10/01/2024	ND	179	89.6	200	5.60		
<b>EXT DRO &gt;C28-C36</b>	<b>1070</b>	10.0	10/01/2024	ND						

Surrogate: 1-Chlorooctane 216 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 4 (8-9) (H245920-32)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>59.6</b>	2.00	10/01/2024	ND	2.06	103	2.00	2.66	QM-07
<b>Toluene*</b>	<b>392</b>	2.00	10/01/2024	ND	2.26	113	2.00	3.20	QM-07
<b>Ethylbenzene*</b>	<b>97.4</b>	2.00	10/01/2024	ND	2.49	125	2.00	6.32	QM-07
<b>Total Xylenes*</b>	<b>371</b>	6.00	10/01/2024	ND	7.62	127	6.00	7.78	QM-07
<b>Total BTEX</b>	<b>920</b>	12.0	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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
<b>Chloride</b>	<b>1840</b>	16.0	10/01/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>5690</b>	10.0	10/01/2024	ND	179	89.6	200	2.52		
<b>DRO &gt;C10-C28*</b>	<b>9290</b>	10.0	10/01/2024	ND	179	89.6	200	5.60		
<b>EXT DRO &gt;C28-C36</b>	<b>1220</b>	10.0	10/01/2024	ND						

Surrogate: 1-Chlorooctane 260 % 48.2-134

Surrogate: 1-Chlorooctadecane 177 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 4 (9-10) (H245920-33)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>27.9</b>	5.00	10/02/2024	ND	2.06	103	2.00	2.66	
<b>Toluene*</b>	<b>257</b>	5.00	10/02/2024	ND	2.26	113	2.00	3.20	
<b>Ethylbenzene*</b>	<b>68.6</b>	5.00	10/02/2024	ND	2.49	125	2.00	6.32	
<b>Total Xylenes*</b>	<b>244</b>	15.0	10/02/2024	ND	7.62	127	6.00	7.78	
<b>Total BTEX</b>	<b>598</b>	30.0	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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
<b>Chloride</b>	<b>656</b>	16.0	10/01/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>8070</b>	50.0	10/02/2024	ND	179	89.6	200	2.52		
<b>DRO &gt;C10-C28*</b>	<b>13700</b>	50.0	10/02/2024	ND	179	89.6	200	5.60		
<b>EXT DRO &gt;C28-C36</b>	<b>1940</b>	50.0	10/02/2024	ND						

Surrogate: 1-Chlorooctane 592 % 48.2-134

Surrogate: 1-Chlorooctadecane 277 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 4 (14-15) (H245920-34)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.06	103	2.00	2.66		
Toluene*	<0.050	0.050	10/01/2024	ND	2.26	113	2.00	3.20		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.49	125	2.00	6.32		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.62	127	6.00	7.78		
Total BTEX	<0.300	0.300	10/01/2024	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	128	16.0	10/01/2024	ND	416	104	400	7.41		

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	10/01/2024	ND	179	89.6	200	2.52		
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	179	89.6	200	5.60		
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND						

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 4 (19-20) (H245920-35)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.06	103	2.00	2.66	
Toluene*	<0.050	0.050	10/01/2024	ND	2.26	113	2.00	3.20	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.49	125	2.00	6.32	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.62	127	6.00	7.78	
Total BTEX	<0.300	0.300	10/01/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	10/01/2024	ND	416	104	400	7.41	

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	10/01/2024	ND	179	89.6	200	2.52	
<b>DRO &gt;C10-C28*</b>	<b>222</b>	10.0	10/01/2024	ND	179	89.6	200	5.60	
<b>EXT DRO &gt;C28-C36</b>	<b>41.8</b>	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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**Analytical Results For:**

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

**Sample ID: BH 3 (3-4') (H245920-37)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>34.0</b>	2.00	10/01/2024	ND	2.06	103	2.00	2.66	
<b>Toluene*</b>	<b>276</b>	2.00	10/01/2024	ND	2.26	113	2.00	3.20	
<b>Ethylbenzene*</b>	<b>66.1</b>	2.00	10/01/2024	ND	2.49	125	2.00	6.32	
<b>Total Xylenes*</b>	<b>315</b>	6.00	10/01/2024	ND	7.62	127	6.00	7.78	
<b>Total BTEX</b>	<b>691</b>	12.0	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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
<b>Chloride</b>	<b>2040</b>	16.0	10/01/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>6780</b>	50.0	10/02/2024	ND	179	89.6	200	2.52		
<b>DRO &gt;C10-C28*</b>	<b>12900</b>	50.0	10/02/2024	ND	179	89.6	200	5.60		
<b>EXT DRO &gt;C28-C36</b>	<b>1970</b>	50.0	10/02/2024	ND						

Surrogate: 1-Chlorooctane 531 % 48.2-134

Surrogate: 1-Chlorooctadecane 222 % 49.1-148

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 4

Company Name:		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager:		Company:					
Address:		Attn:					
City:		Address:					
Phone #:		City:					
Project #:		State:					
Project Name:		Phone #:					
Project Location:		Fax #:					
Sampler Name:		PRESERV:		DATE		TIME	
FOR LAB USE ONLY		SAMPLING					
Lab I.D.		Sample I.D.					
#459900		BH 2 (0-1)		9/26		9:30	
11		" (2-3)		9/26		9:40	
12		" (3-4)		9/26		9:50	
13		" (4-5)		9/26		10:00	
14		" (6-7)		9/26		10:05	
15		" (8-9)		9/26		10:10	
16		" (8-9)		9/26		10:20	
17		" (14-15)		9/26		10:30	
18		" (19-20)		9/26		10:40	
19		" (19-20)		9/26		10:50	
20		BH 3 (0-1)		9/26		10:50	
		(G)RAB OR (C)OMP.					
		# CONTAINERS					
		GROUNDWATER					
		WASTEWATER					
		SOIL					
		OIL					
		SLUDGE					
		OTHER :					
		ACID/BASE:					
		ICE / COOL					
		OTHER :					

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Relinquished By: *[Signature]* Date: 9/26 Time: 1:30 Received By: *[Signature]* Date: 9/26 Time: 1:30

Delivered By: (Circle One) Observed Temp. °C: 9.9 Corrected Temp. °C: 1.3 Sample Condition: Cool Intact  Yes  No

Sampler - UPS - Bus - Other: Corrected Temp. °C: 1.3

Checked By: *[Signature]*

Turnaround Time: Standard  Rush  Bacteria (only) Sample Condition: Cool Intact  Yes  No Corrected Temp. °C:  Yes  No

Thermometer ID #140 Correction Factor -0.8°C

Verbal Result:  Yes  No Add'l Phone #:  Yes  No

All Results are emailed. Please provide Email address:

REMARKS:

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





# **APPENDIX E**

## **Boring Logs**

212C-MD-03575	<b>TETRA TECH</b>	<b>LOG OF BORING BH-1</b>	Page 1 of 1
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Project Name: Deckard Federal Com 3H

Borehole Location: 32.224463°, -103.528796°      Surface Elevation: 3596 ft

Borehole Number: BH-1      Borehole Diameter (in.): 2      Date Started: 9/26/2024      Date Finished: 9/26/2024

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
												While Drilling	Upon Completion of Drilling	DEPTH (ft)
			ExStik	PID								WATER LEVEL OBSERVATIONS While Drilling <input checked="" type="checkbox"/> DRY ft    Upon Completion of Drilling <input checked="" type="checkbox"/> DRY ft  Remarks:		
2												-SP- SAND: Brown, loose, dry, with significant hydrocarbon odor.	2	
5												-SM- SANDY SILT: Reddish brown, loose, dry, with significant hydrocarbon odor.	6	
10			1400	1000								-ML- SANDY SILT: Brown, loose, moist, with significant hydrocarbon odor.	14	
15			375	50								-CL-ML- CALICHE: White, dense, dry, cemented, with slight hydrocarbon odor.		
20			675	30								-- - No odor @ 19' bgs		
25			510	0										

Bottom of borehole at 25.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample Acetate Liner Vane Shear Discrete Sample Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Surface elevation is an approximate value obtained from Google Earth.
--	---	--

Logger: Adrian Garcia      Drilling Equipment: Direct Push      Driller: Envirotech Drilling Services

212C-MD-03575	<b>TETRA TECH</b>	<b>LOG OF BORING BH-2</b>	Page 1 of 1
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Project Name: Deckard Federal Com 3H

Borehole Location: 32.224495°, -103.528816°      Surface Elevation: 3596 ft

Borehole Number: BH-2      Borehole Diameter (in.): 2      Date Started: 9/26/2024      Date Finished: 9/26/2024

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
												While Drilling	Upon Completion of Drilling	DEPTH (ft)
			ExStik	PID								WATER LEVEL OBSERVATIONS While Drilling <u>∇</u> DRY ft    Upon Completion of Drilling <u>∇</u> DRY ft  Remarks:		
2												-SP- SAND: Brown, loose, dry, with significant hydrocarbon odor.		
5												-SM- SILTY SAND: Reddish brown, loose, dry, with significant hydrocarbon odor.		
6												-ML- SANDY SILT: Brown, loose, moist, with significant hydrocarbon odor.		
9			300	26								-SM- CALICHE: Brownish pink, dense, dry, cemented, with significant hydrocarbon odor.		
14			389	8								-CL-ML- CALICHE: White, dense, dry, cemented, no odor.		
20			250	10										
25														

Bottom of borehole at 25.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample Acetate Liner Vane Shear Discrete Sample Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Surface elevation is an approximate value obtained from Google Earth.
--	---	--

Logger: Adrian Garcia      Drilling Equipment: Direct Push      Driller: Envirotech Drilling Services

212C-MD-03575	<b>TETRA TECH</b>	<b>LOG OF BORING BH-3</b>	Page 1 of 1
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Project Name: Deckard Federal Com 3H

Borehole Location: 32.224561°, -103.528788°      Surface Elevation: 3596 ft

Borehole Number: BH-3      Borehole Diameter (in.): 2      Date Started: 9/26/2024      Date Finished: 9/26/2024

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS			
												While Drilling	Upon Completion of Drilling	DEPTH (ft)	REMARKS
			ExStik	PID								While Drilling <u>∇</u> DRY ft    Upon Completion of Drilling <u>∇</u> DRY ft Remarks:			
5												-SP- SAND: Brown, loose, dry, with significant hydrocarbon odor. -SM- SILTY SAND: Reddish brown, loose, dry, with significant hydrocarbon odor.	2		
10			20	81								-SM- SANDY SILT: Brownish pink, loose, moist, with slight hydrocarbon odor. -CL-ML- CALICHE: White, dense, dry, cemented, no odor.	8 9		
15			3	306											
20															
25															

Bottom of borehole at 25.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample Acetate Liner Vane Shear Discrete Sample Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Surface elevation is an approximate value obtained from Google Earth.
--	---	--

Logger: Adrian Garcia      Drilling Equipment: Direct Push      Driller: Envirotech Drilling Services

212C-MD-03575	<b>TETRA TECH</b>	<b>LOG OF BORING BH-4</b>	Page 1 of 1
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Project Name: Deckard Federal Com 3H

Borehole Location: 32.224617°, -103.528820°      Surface Elevation: 3596 ft

Borehole Number: BH-4      Borehole Diameter (in.): 2      Date Started: 9/26/2024      Date Finished: 9/26/2024

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
												While Drilling	Upon Completion of Drilling	DEPTH (ft)
												While Drilling <u>∇</u> DRY ft    Upon Completion of Drilling <u>∇</u> DRY ft Remarks:		
5												-SP- SAND: Brown, loose, dry, with slight hydrocarbon odor.	3	
												-- - Significant hydrocarbon odor @ 3'		
10			500	1000								-SM- SILTY SAND: Reddish brown, loose, dry, with significant hydrocarbon odor.	8	
												-SP- SAND: Light brown, loose, moist, with significant hydrocarbon odor.	9	
												-CL-ML- CALICHE: White, dense, dry, with slight hydrocarbon odor.		
15												-- - No hydrocarbon odor @ 14'	15	
20			35	400								-CL-ML- CALICHE: Pinkish white, dense, dry, no odor.		
25														

Bottom of borehole at 25.0 feet.

<b>Sampler Types:</b> Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear Discrete Sample Test Pit	<b>Operation Types:</b> Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger Air Rotary Direct Push Core Barrel	<b>Notes:</b> Surface elevation is an approximate value obtained from Google Earth.
--	--	---	--	--

Logger: Adrian Garcia      Drilling Equipment: Direct Push      Driller: Envirotech Drilling Services

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 413350

**QUESTIONS**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 413350
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2418342470
Incident Name	NAPP2418342470 DECKARD FEDERAL COM 002H @ 0
Incident Type	Release Other
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2203454442] DECKARD FEE 2H BATTERY

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	Deckard Federal Com 002H
Date Release Discovered	06/21/2024
Surface Owner	Private

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

<b>Nature and Volume of Release</b>	
<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: Corrosion   Flow Line - Production   Crude Oil   Released: 3 BBL   Recovered: 0 BBL   Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Produced Water   Released: 5 BBL   Recovered: 0 BBL   Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 413350

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 413350
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

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

**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	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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

I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 12/18/2024
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Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 413350

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 413350
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

**Site Characterization**  
*Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 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	No

**Remediation Plan**  
*Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

Requesting a remediation plan approval with this submission	Yes
<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)	4720
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	41280
GRO+DRO (EPA SW-846 Method 8015M)	38400
BTEX (EPA SW-846 Method 8021B or 8260B)	1080
Benzene (EPA SW-846 Method 8021B or 8260B)	78.9

*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	04/17/2025
On what date will (or did) the final sampling or liner inspection occur	05/08/2025
On what date will (or was) the remediation complete(d)	05/17/2025
What is the estimated surface area (in square feet) that will be reclaimed	2125
What is the estimated volume (in cubic yards) that will be reclaimed	380
What is the estimated surface area (in square feet) that will be remediated	2125
What is the estimated volume (in cubic yards) that will be remediated	380

*These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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QUESTIONS, Page 4

Action 413350

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 413350
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 12/18/2024
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 413350

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 413350
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<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

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QUESTIONS, Page 6

Action 413350

**QUESTIONS (continued)**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 413350
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	{Unavailable.}

<b>Remediation Closure Request</b>	
<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	No

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CONDITIONS

Action 413350

**CONDITIONS**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 413350
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**CONDITIONS**

Created By	Condition	Condition Date
bhall	Remediation plan conditionally approved.	12/26/2024
bhall	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	12/26/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	12/26/2024
bhall	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	12/26/2024
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	12/26/2024
bhall	Submit a complete and accurate remediation closure report and/or reclamation report through the OCD Permitting website by 3/28/2025.	12/26/2024