

## SITE INFORMATION

### Report Type: Closure Report nAPP2302847724

#### General Site Information:

<b>Site:</b>	Hayhurst NM Section 9 CTB				
<b>Company:</b>	Chevron U.S.A., Inc.				
<b>Section, Township and Range</b>	Unit P	Sec. 08	T 26S	R 27E	
<b>Lease Number:</b>					
<b>County:</b>	Eddy County				
<b>GPS:</b>	32.053061			-104.205989	
<b>Surface Owner:</b>	Federal				
<b>Mineral Owner:</b>					
<b>Directions:</b>	From the intersection of US-285 and Whites City Road, drive west on Whites City Road 7.83 miles. Turn left and drive south 0.63 mile. Turn right and drive west 0.19 mile. Turn right and drive north 385 ft (0.07 mile). The center of the spill site is 115 ft to the left at GPS 32.052696, -104.200416.				

#### Release Data:

<b>Date Released:</b>	1/13/2023
<b>Type Release:</b>	Produced Water
<b>Source of Contamination:</b>	Seized Pump
<b>Fluid Released:</b>	270.808 bbl water
<b>Fluids Recovered:</b>	60 bbl water

#### Official Communication:

<b>Name:</b>	Amy Barnhill		Clair Gonzales
<b>Company:</b>	Chevron U.S.A., Inc.		Tetra Tech
<b>Address:</b>	6301 Deauville Blvd		901 W. Wall St.
			Ste 100
<b>City:</b>	Midland, Texas 79706		Midland, Texas, 79701
<b>Phone number:</b>	(432) 687-7108		(432) 682-4559
<b>Fax:</b>			
<b>Email:</b>	<a href="mailto:Abarnhill@chevron.com">Abarnhill@chevron.com</a>		<a href="mailto:clair.gonzales@tetrattech.com">clair.gonzales@tetrattech.com</a>

#### Site Characterization

<b>Depth to Groundwater:</b>	17.75' Below Ground Surface
<b>Karst Potential:</b>	Medium

#### Recommended Remedial Action Levels (RRALs)

Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	Chlorides
10 mg/kg	50 mg/kg	100 mg/kg	100 mg/kg	600 mg/kg



February 12, 2024

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**RE: Remediation Work Plan  
Chevron MCBU  
Hayhurst NM Section 9 CTB  
Eddy County, New Mexico  
nAPP2302847724**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by Chevron U.S.A., Inc. (Chevron) to assess a release that occurred at the Hayhurst NM Section 9 CTB, Unit P, Section 8, Township 26 South, Range 27 East, Eddy County, New Mexico (Site). The spill site coordinates are 32.053061°, -104.205989°. The site location is shown on **Figures 1 and 2**.

## **Background**

According to the State of New Mexico C-141 Initial Report, the release at the Site was caused by a transfer pump that ran dry of oil and seized, causing the release of 270.808 barrels (bbls) of produced water; the release flowed along the tank battery and on the pad, impacting an area of 172 feet (ft) long and approximately 89 ft wide. Additionally, approximately 60 bbls of fluids were recovered. On December 28, 2022, the release was discovered and reported to the New Mexico Oil Conservation Division (NMOCD). The C-141 is provided in **Appendix A**.

## **Site Characterization**

### Significant Water Features

According to the (National Flood Hazard Layer) NFHL Flood Data Application and the (United States Geological Survey) USGS National Water Information System Mapper, there were no watercourses, lakebeds, sinkholes, playa lakes, springs, wetlands, subsurface mines, private domestic water wells, or floodplains located within the specified distances of the site. However, the site is located in a medium karst area. The NFHL Map and USGS Mapper are provided in **Appendix B**.

### Significant Boundaries

According to Google Earth US Government City Boundaries and US School Districts, the lateral extents of the release were not within incorporated municipal boundaries, a defined municipal fresh water well field, or a school district. Additionally, there were no occupied permanent residences, schools, hospitals, institutions, or churches located within the specified distances of the lateral extents of the release.



### Groundwater Review

Groundwater research was completed for the site through the USGS National Water Information System and New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System. Results of groundwater research conducted through these two resources, show the three closest water wells within a 2-mile radius of the Site. The well reported on the NMOSE Water Rights Reporting System is listed as having a total depth of 81 ft below ground surface (bgs), and measured water level of 19 ft bgs and is approximately 1.88 miles from the Site. The well reported on the USGS National Water Information System is listed as having a water level measured at 17.75 ft bgs and is approximately 0.59 miles from the Site. The well reported on the USGS National Water Information System is listed as having a water level measured at 8.94 ft bgs and is approximately 1.11 miles from the Site. The groundwater information is shown in **Appendix B**.

Distance from Site	Date of Data	Resource of Information	Depth of Well	Depth to Water
1.88 Miles	6/3/1998	NMOSE	81 ft	19 ft
0.59 Miles	1/28/2003	USGS	N/A	17.75 ft
1.11 Miles	1/9/2013	USGS	N/A	8.94 ft

### Regulatory

NMOCD Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018, will be followed for the site. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL for TPH is 100 mg/kg. Additionally, based on the site characterization, the proposed RRAL for chloride is 600 mg/kg.

### Site Assessment Activities

Tetra Tech conducted site assessment activities on March 9, 2023. A total of seven (7) auger holes (AH-1 through AH-7) were installed within the impacted area, to depths ranging from surface to 4.5 ft bgs to attempt to assess and vertically delineate the impacted area. Additionally, a total of six (6) auger holes designated as "horizontals" (H-1 through H-6) were installed directly outside of the impact outline to total depths of 1.0 ft bgs, to horizontally delineate the impact. The extent of impact and sample locations are shown on **Figure 3**.

The samples were submitted to Eurofins Laboratories in Midland, Texas to be analyzed for TPH by method 8015 modified, BTEX by method 8021B, and Chloride by EPA Method 300.0. The analytical results are summarized in **Table 1** and the analytical laboratory reports are included in **Appendix C**.

Referring to Table 1, auger holes (AH-1, AH-3, AH-4, AH-6, and AH-7) indicated chloride concentrations above RRALs, with concentrations ranging from 638 mg/kg to 5,970 mg/kg, at depths ranging from surface to 4.5 ft bgs. However, vertical delineation of chlorides was not



found in the auger holes (AH-1 and AH-7), with bottom hole concentrations of 868 mg/kg and 638 mg/kg, respectively. Vertical delineation was not achieved due to hitting auger refusal due to a dense geological formation. Auger holes (AH-2 and AH-5) did not indicate chloride concentrations above RRALs. Auger holes (AH-1 through AH-7) did not indicate benzene, BTEX, or TPH concentrations above laboratory detection limits. Additionally, horizontals (H-1 through H-6) did not indicate benzene, BTEX, TPH, or chloride concentrations above RRALs.

### Remediation Activities

Tetra Tech conducted remediation activities from December 11, 2023, through December 15, 2023. The areas of impact were remediated to depths ranging from 1.0 ft bgs to 4.5 ft bgs. The remediation areas and depths are shown on **Figure 4 through 4B**.

Following remediation activities, Tetra Tech conducted confirmation sampling by collecting 5-point composite bottom hole samples and 5-point composite sidewall samples every 200 square feet within the remediation. All confirmation samples are collected as a composite 5-point die pattern to ensure a representative sample of sidewalls and floor of the excavation are collected. The confirmation sample notification was sent to the NMOCD via email, on December 8, 2023, at 2:13 PM, and a copy of the notice is provided in **Appendix D**. Additionally, a C-141N was filed for the sampling notification as well, and is attached along with the final C-141 in **Appendix A**. A total of twenty-three (23) bottom holes were collected and a total of twenty-five (25) sidewalls were collected to confirm full removal of impacted soil. The confirmation soil samples were submitted to the Cardinal Laboratory in Hobbs, New Mexico to be analyzed for TPH by method 8015 modified, BTEX by method 8021B, and Chloride by EPA Method 4500. The analytical results are summarized in **Table 4** and the analytical laboratory reports are included in **Appendix C**.

Regarding all final samples collected from the remediation, analytical results indicated benzene, BTEX, TPH, and chloride concentrations were below the RRALs.

### Conclusions

Based on the C-141 (nAPP2302847724) and information provided by Chevron, Tetra Tech performed site characterization and groundwater research to determine groundwater depth, proximity from significant water features, and proximity from specified populated entities to determine RRALs and assess the impacted area. Based on the *OCD Guidelines for Remediation of Leaks, Spills, and Releases*, updated August 14, 2018, according to the groundwater data found during research activities, the RRALs of 600 mg/kg for chlorides and 100 mg/kg for TPH were followed for soil beyond the top 4.0 ft of soil. Based on Tetra Tech assessment activities, laboratory results indicated chloride concentrations in auger holes (AH-1, AH-3, AH-4, AH-6, and AH-7) exceeded RRALs and required remediation.

Following remediation of the areas of impact, Tetra Tech conducted confirmation soil sampling of the area by collecting 5-point composite confirmation bottom hole and sidewall samples to ensure the impacted soil was fully removed. Approximately 273 cubic yards of impacted soil was removed and properly disposed of, and the area was backfilled with clean to surface grade material. The analytical results indicated all confirmation samples reported below the RRALs for all constituents. Based on this information, it is recommended that the



remediated pad at this Site requires no further action. The final C-141 is included in **Appendix A**.

If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.

Respectfully submitted,  
TETRA TECH

A handwritten signature in blue ink, appearing to read 'Brittany Long'.

Brittany Long  
Project Manager

A handwritten signature in blue ink, appearing to read 'Clair Gonzales'.

Clair Gonzales, P.G.  
Senior Project Manager

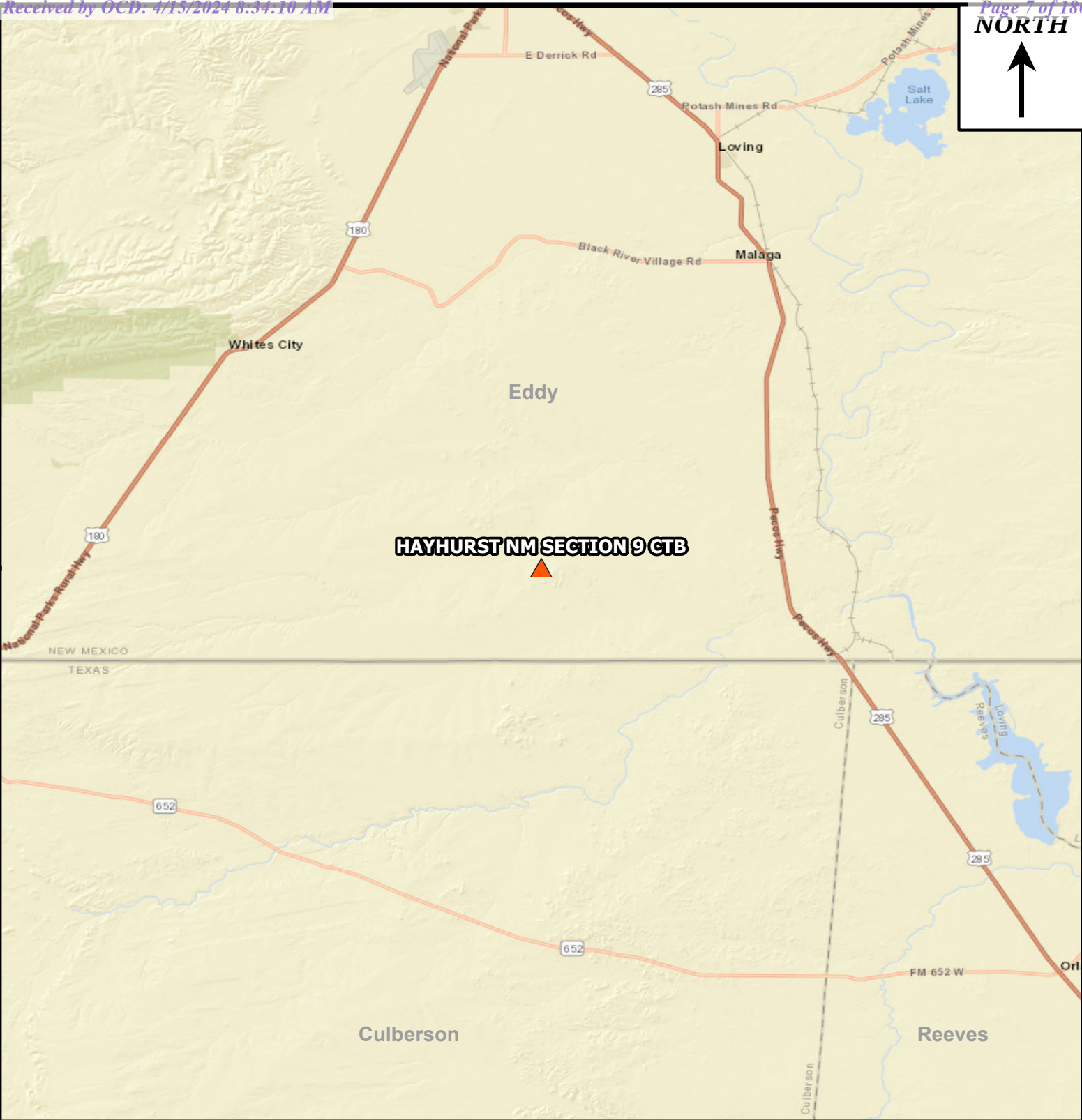
Cc: Madeline Mauk, Tetra Tech - Madeline.Mauk@TetraTech.com



# Figures

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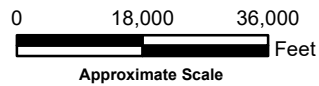
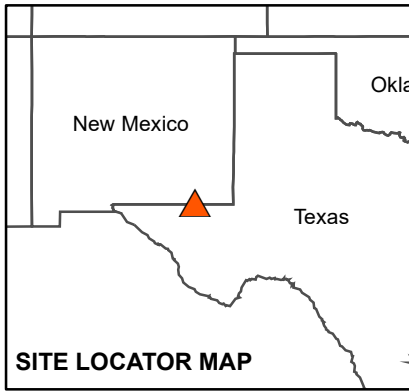
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**HAYHURST NM SECTION 9 CTB**



 APPROXIMATE SITE LOCATION

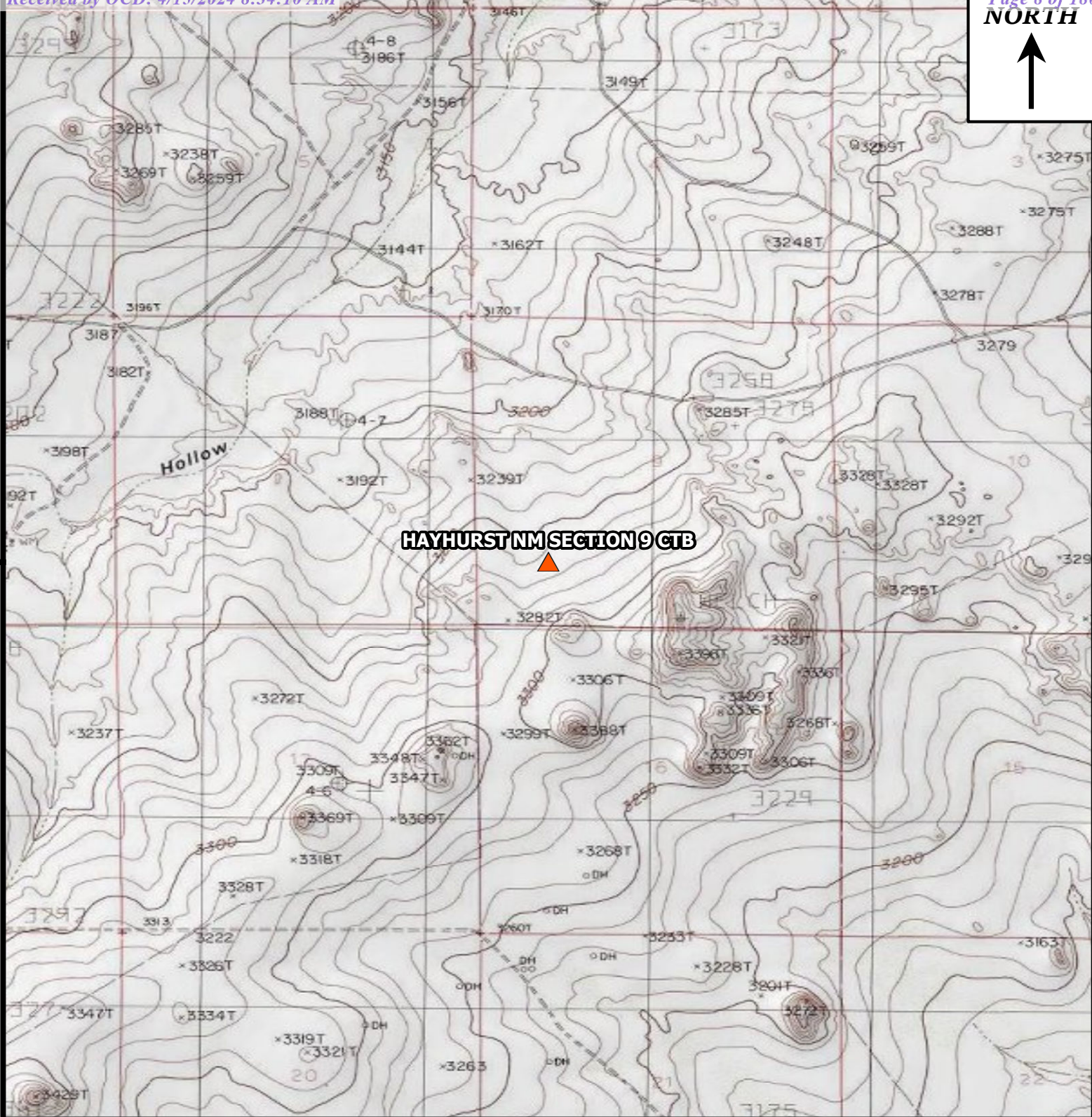


**FIGURE 1**  
**OVERVIEW MAP**  
**HAYHURST NM SECTION 9 CTB**  
**EDDY COUNTY, NEW MEXICO**  
**32.0526030°, -104.2005392°**

Project: 212C-MD-03038  
Date: 3/29/2023  
Name: Figure 1 - Chevron - Hayhurst



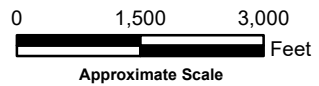
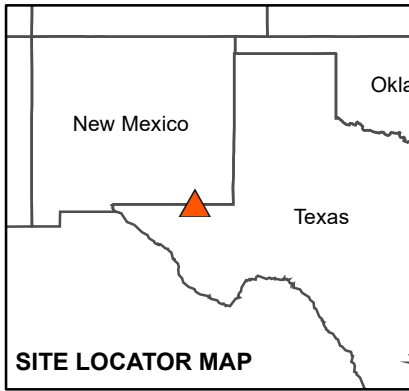
Document Path: C:\Users\E.MORENO\FLORES\Documents\Projects\Chevron\ICBU\03038 - Hayhurst NM Section 9 CTB\MXD\Figure 1 - Chevron - Hayhurst.mxd



**HAYHURST NM SECTION 9 CTB**



 APPROXIMATE SITE LOCATION

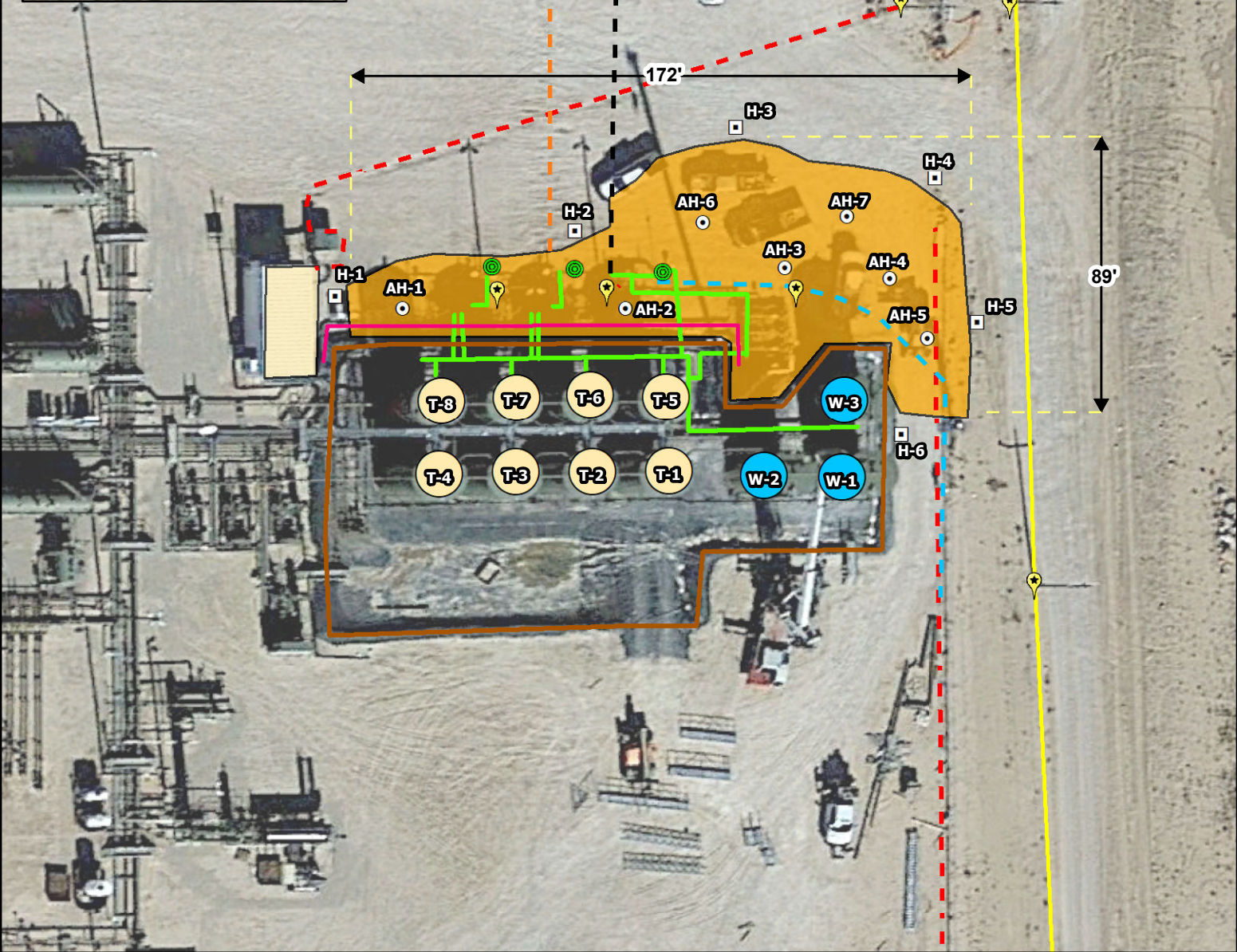


**FIGURE 2**  
**TOPOGRAPHIC MAP**  
**HAYHURST NM SECTION 9 CTB**  
**EDDY COUNTY, NEW MEXICO**  
32.0526030°, -104.2005392°

Project: 212C-MD-03038  
Date: 3/29/2023  
Name: Figure 2 - Chevron - Hayhurst







- LIGHT POLES
- LINE HEADERS
- HORIZONTAL SAMPLE LOCATIONS
- AUGERHOLE SAMPLE LOCATIONS
- CONDENSATE STORAGE TANKS
- WATER STORAGE TANKS
- OVERHEAD POWER LINES
- BURIED ELECTRICAL LINES
- SURFACE ELECTRICAL LINES
- BURIED PIPELINES
- BURIED CHEVRON PIPELINE
- BURIED PLAINS PIPELINE
- EARTH BERM WITH LINER
- SURFACE LINES
- POWER STATION
- RELEASE EXTENT

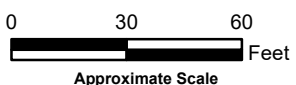
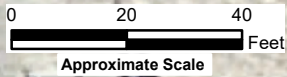
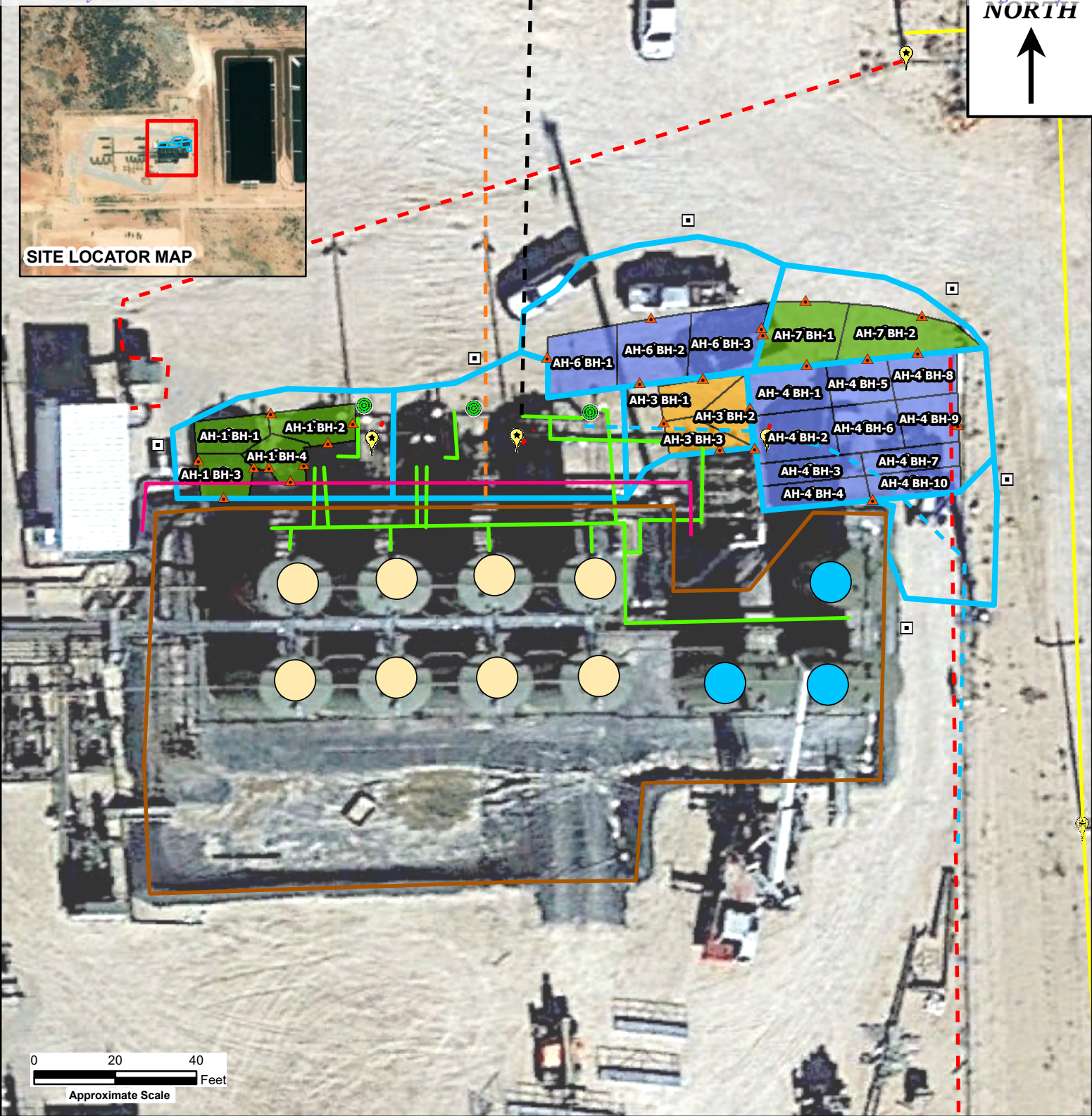


FIGURE 3  
SITE ASSESSMENT MAP  
HAYHURST NM SECTION 9 CTB  
EDDY COUNTY, NEW MEXICO  
32.0526030°, -104.2005392°

Project: 212C-MD-03038  
Date: 4/3/2023  
Name: Figure 3 - Chevron - Hayhurst



NORTH



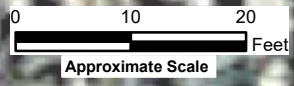
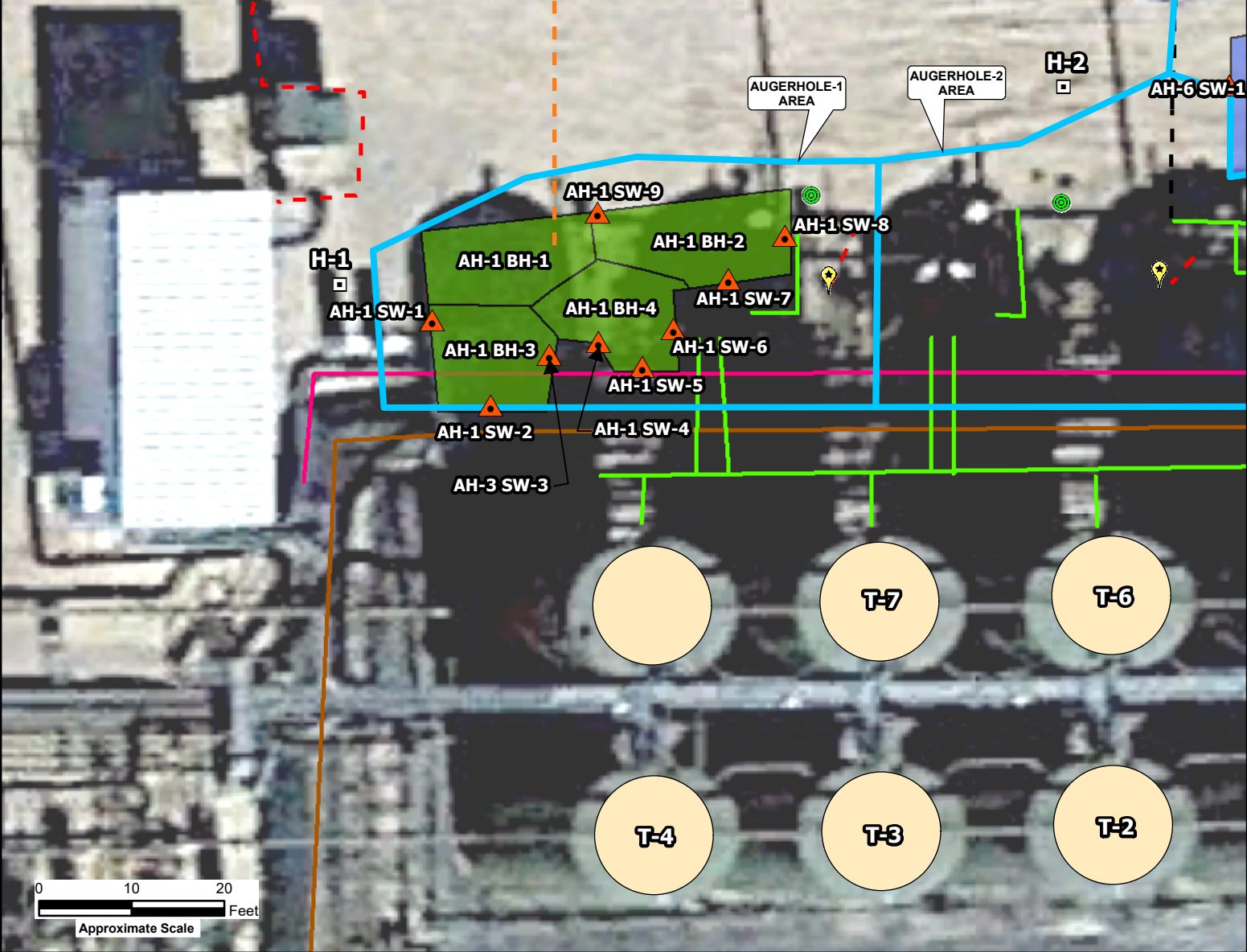
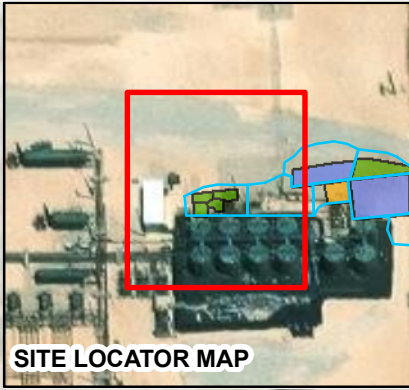
- SIDEWALL SAMPLE LOCATION
- AUGERHOLE LOCATION
- HORIZONTAL SAMPLE LOCATION
- LIGHT POLES
- LINE HEADERS
- CONDENSATE STORAGE TANKS
- WATER STORAGE TANKS
- OVERHEAD POWER LINES
- BURIED ELECTRICAL LINES
- SURFACE ELECTRICAL LINES
- BURIED PIPELINES
- BURIED CHEVRON PIPELINE
- BURIED PLAINS PIPELINE
- EARTH BERM WITH LINER
- SURFACE LINES
- AUGERHOLE AREA
- 1.0' DEPTH EXCAVATION
- 1.5' DEPTH EXCAVATION
- 4.5' DEPTH EXCAVATION



**FIGURE 4**  
**PROPOSED EXCAVATION MAP**  
**HAYHURST NM SECTION 9 CTB**  
**EDDY COUNTY, NEW MEXICO**  
 32.0526030°, -104.2005392°

Project: 212C-MD-03038  
 Date: 1/7/2024  
 Name: Figure 4 - Chevron - Hayhurst





- SIDEWALL SAMPLE LOCATION
- AUGERHOLE LOCATION
- HORIZONTAL SAMPLE LOCATION
- LIGHT POLES
- LINE HEADERS
- CONDENSATE STORAGE TANKS
- WATER STORAGE TANKS
- OVERHEAD POWER LINES
- BURIED ELECTRICAL LINES
- SURFACE ELECTRICAL LINES
- BURIED PIPELINES
- BURIED CHEVRON PIPELINE
- BURIED PLAINS PIPELINE
- EARTH BERM WITH LINER
- SURFACE LINES
- AUGERHOLE AREA
- 1.0' DEPTH EXCAVATION
- 1.5' DEPTH EXCAVATION
- 4.5' DEPTH EXCAVATION

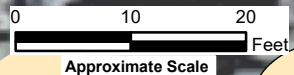
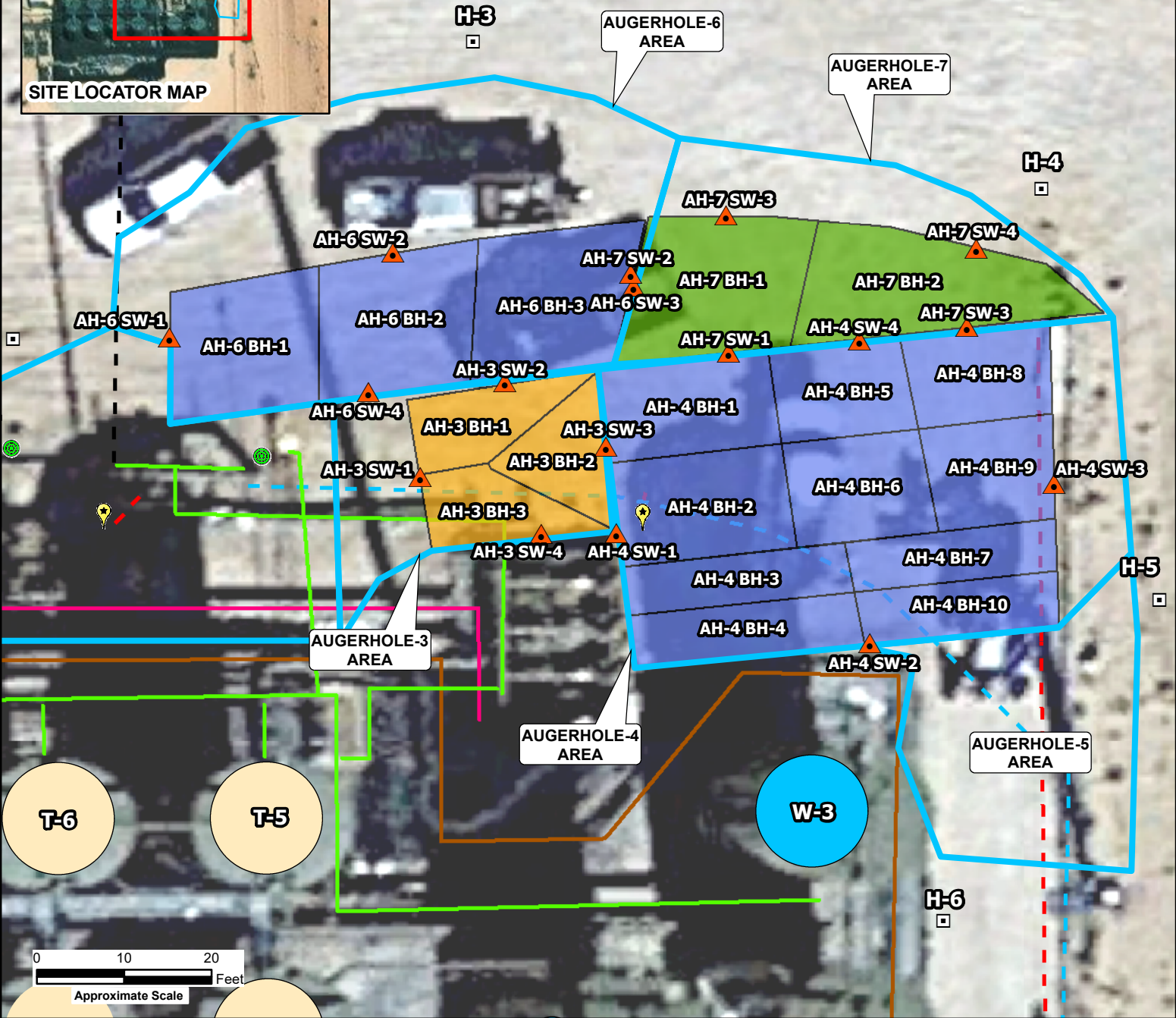
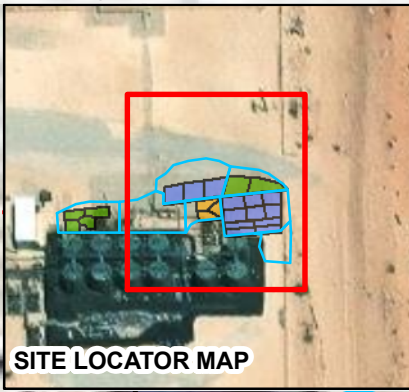


**FIGURE 4A**  
**PROPOSED EXCAVATION MAP**  
**HAYHURST NM SECTION 9 CTB**  
**EDDY COUNTY, NEW MEXICO**  
 32.0526030°, -104.2005392°

Project: 212C-MD-03038  
 Date: 1/7/2024  
 Name: Figure 4A - Chevron - Hayhurst



NORTH



- SIDEWALL SAMPLE LOCATION
- AUGERHOLE LOCATION
- HORIZONTAL SAMPLE LOCATION
- LIGHT POLES
- LINE HEADERS
- CONDENSATE STORAGE TANKS
- WATER STORAGE TANKS
- OVERHEAD POWER LINES
- BURIED ELECTRICAL LINES
- SURFACE ELECTRICAL LINES
- BURIED PIPELINES
- BURIED CHEVRON PIPELINE
- BURIED PLAINS PIPELINE
- EARTH BERM WITH LINER
- SURFACE LINES
- AUGERHOLE AREA
- 1.0' DEPTH EXCAVATION
- 1.5' DEPTH EXCAVATION
- 4.5' DEPTH EXCAVATION



**FIGURE 4B**  
**PROPOSED EXCAVATION MAP**  
**HAYHURST NM SECTION 9 CTB**  
**EDDY COUNTY, NEW MEXICO**  
 32.0526030°, -104.2005392°

Project: 212C-MD-03038  
 Date: 1/7/2024  
 Name: Figure 4B - Chevron - Hayhurst





# Tables

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**Table 1**  
**Chevron MCBU**  
**Hayhurst NM Section 9 CTB**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				BTEX (mg/kg)				Chloride (mg/kg)		
			In-Situ	Removed	GRO mg/kg	DRO mg/kg	ORO mg/kg	Total mg/kg	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)		Total (mg/Kg)	
<b>RRALs</b>					<b>100 mg/kg</b>				<b>10 mg/kg</b>				<b>50 mg/kg</b>		<b>600 mg/kg</b>
<b>Assessment</b>															
AH-1	3/9/2023	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	34.8	
	"	1-1.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	42.8	
	"	2-2.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	102	
	"	3-3.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	379	
	"	4-4.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<b>868</b>	
AH-2	3/9/2023	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	87.3	
	"	1-1.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	353	
	"	2-2.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	503	
	"	3-3.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	385	
	"	4-4.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	242	
AH-3	3/9/2023	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<b>2,290</b>	
	"	1-1.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<b>715</b>	
	"	2-2.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	94.1	
	"	3-3.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	130	
AH-4	3/9/2023	0-1	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<b>1,440</b>	
	"	1-1.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	486	
	"	2-2.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	333	
	"	3-3.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	78.2	
AH-5	3/9/2023	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	21.4	
	"	1-1.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	119	
	"	2-2.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	130	
	"	3-3.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	139	
AH-6	3/9/2023	0-1	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<b>2,250</b>	
	"	1-1.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	557	
	"	2-2.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	158	
	"	3-3.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	87.5	
AH-7	3/9/2023	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<b>5,970</b>	
	"	1-1.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<b>848</b>	
	"	2-2.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	269	
	"	3-3.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	316	
	"	4-4.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<b>638</b>	

**Table 1**  
**Chevron MCBU**  
**Hayhurst NM Section 9 CTB**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				BTEX (mg/kg)					Chloride (mg/kg)
			In-Situ	Removed	GRO mg/kg	DRO mg/kg	ORO mg/kg	Total mg/kg	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	Total (mg/Kg)	
<b>RRALs</b>								<b>100</b>	<b>10</b>				<b>50</b>	<b>600</b>
								<b>mg/kg</b>	<b>mg/kg</b>				<b>mg/kg</b>	<b>mg/kg</b>
H-1	3/9/2023	0-1.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	29.1
H-2	3/9/2023	0-1.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	41.6
H-3	3/9/2023	0-1.0	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	37.5
H-4	3/9/2023	0-1.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	43.2
H-5	3/9/2023	0-1.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	43.3
H-6	3/9/2023	0-1.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	36.7

**NOTES**

RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Division) *Guidelines for Remediation of Leaks*, All screening values and results are presented in milligrams per kilogram (mg/kg)

**Bolded cells represent a detected concentration above the respective screening value.**

< = analyte was not detected above the respective sample detection limit

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

Exceedance

**Table 2**  
**Chevron**  
**Hayhurst NM Section 9 CTB**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				BTEX (mg/kg)					Chloride (mg/kg)	
			In-Situ	Removed	GRO mg/kg	DRO mg/kg	ORO mg/kg	Total mg/kg	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	Total (mg/Kg)		
<b>RRALs</b>															
					100 mg/kg				10 mg/kg					50 mg/kg	600 mg/kg
<b>AH-1 Area Confirmation Sampling</b>															
BH-1	12/14/2023	4.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320	
BH-2	12/14/2023	4.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320	
BH-3	12/14/2023	4.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240	
BH-4	12/14/2023	4.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240	
SW-1	12/14/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144	
SW-2	12/14/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	
SW-3	12/14/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0	
SW-4	12/14/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	
SW-5	12/14/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	
SW-6	12/14/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	
SW-7	12/14/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	
SW-8	12/14/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.055	<0.050	<0.150	<0.300	64.0	
SW-9	12/14/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336	
<b>AH-3 Area Confirmation Sampling</b>															
BH-1	12/15/2023	1.5'	X	-	<10.0	41.5	<10.0	41.5	<0.050	0.071	<0.050	<0.150	<0.300	240	
BH-2	12/15/2023	1.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.099	<0.050	<0.150	<0.300	48.0	
BH-3	12/15/2023	1.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	
SW-1	12/15/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224	
SW-2	12/15/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320	
SW-3	12/15/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.051	<0.050	<0.150	<0.300	32.0	
SW-4	12/15/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.072	<0.050	<0.150	<0.300	96.0	



**Table 2**  
**Chevron**  
**Hayhurst NM Section 9 CTB**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				BTEX (mg/kg)					Chloride (mg/kg)	
			In-Situ	Removed	GRO mg/kg	DRO mg/kg	ORO mg/kg	Total mg/kg	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	Total (mg/Kg)		
<b>RRALs</b>															
					100 mg/kg				10 mg/kg					50 mg/kg	600 mg/kg
<b>AH-4 Area Confirmation Sampling</b>															
BH-1	12/14/2023	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	
BH-2	12/14/2023	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.073	<0.050	<0.150	<0.300	112	
BH-3	12/14/2023	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.061	<0.050	<0.150	<0.300	112	
BH-4	12/14/2023	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240	
BH-5	12/14/2023	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0	
BH-6	12/14/2023	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.062	<0.050	<0.150	<0.300	96.0	
BH-7	12/14/2023	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.093	<0.050	<0.150	<0.300	112	
BH-8	12/14/2023	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0	
BH-9	12/14/2023	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.073	<0.050	<0.150	<0.300	80.0	
BH-10	12/14/2023	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	
SW-1	12/14/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	
SW-2	12/14/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	
SW-3	12/14/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0	
SW-4	12/14/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0	
<b>AH-6 Area Confirmation Sampling</b>															
BH-1	12/15/2023	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.071	<0.050	<0.150	<0.300	96.0	
BH-2	12/15/2023	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	304	
BH-3	12/15/2023	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	
SW-1	12/15/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0	
SW-2	12/15/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.059	<0.050	<0.150	<0.300	80.0	
SW-3	12/15/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.064	<0.050	<0.150	<0.300	80.0	
SW-4	12/15/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0	

**Table 2**  
**Chevron**  
**Hayhurst NM Section 9 CTB**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				BTEX (mg/kg)					Chloride (mg/kg)		
			In-Situ	Removed	GRO mg/kg	DRO mg/kg	ORO mg/kg	Total mg/kg	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	Total (mg/Kg)			
<b>RRALs</b>					<b>100 mg/kg</b>				<b>10 mg/kg</b>					<b>50 mg/kg</b>		<b>600 mg/kg</b>
<b>AH-7 Area Confirmation Sampling</b>																
<b>BH-1</b>	12/15/2023	4.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0		
<b>BH-2</b>	12/15/2023	4.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0		
<b>BH-3</b>	12/15/2023	4.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0		
<b>SW-1</b>	12/15/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112.0		
<b>SW-2</b>	12/15/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0		
<b>SW-3</b>	12/15/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144.0		
<b>SW-4</b>	12/15/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0		

**NOTES**

RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devision) *Guidelines for Remediation of Leaks*,

All screening values and results are presented in milligrams per kilogram (mg/kg)

**Bolded cells represent a detected concentration above the respective screening value.**

< = analyte was not detected above the respective sample detection limit

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

**Exceedance**



# Photographic Documentation

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Chevron MCBU  
Hayhurst NM Section 9 CTB  
Eddy County, New Mexico



TETRA TECH



View of Remediation – View East



View of Remediation – View Northeast

Chevron MCBU  
Hayhurst NM Section 9 CTB  
Eddy County, New Mexico



TETRA TECH



View of Remediation – View Southeast



View of Remediation – View East

Chevron MCBU  
Hayhurst NM Section 9 CTB  
Eddy County, New Mexico



TETRA TECH



View of Backfilled Area – View South



View of Backfilled Area – View Southwest



# Appendix A

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C-141 Document

Incident ID	nAPP2302847724
District RP	
Facility ID	
Application ID	

Spill Calculations:

	Horizontal Dimensions			Vertical Dimensions		Calculated Volume		
	Diameter (feet)	Length (feet)	Width (feet)	Abovegrade Depth (feet)	Belowgrade Depth (feet)	Water Cut (%)	Oil (ft^3)	Barrels Oil
Area 1		40	54	0.291666667	0.020833333		318.375	56.7051345
Area 2		28	8	0.291666667	0.020833333		66.03333333	11.76106493
Area 3		37	50	0.5	0.020833333		930.78125	165.7795869
Area 4		25	17	0.291666667	0.020833333		125.2864583	22.31452052
Area 5		20	12	0.333333333	0		80	14.24864
Area 6								
Area 7								
						<b>Total</b>	<b>1520.476042</b>	<b>270.8089468</b>



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

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

QUESTIONS

Action 296099

**QUESTIONS**

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 296099
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2302847724
Incident Name	NAPP2302847724 HAYHURST NM SECTION 9 CTB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Facility	[fAPP2131341164] Hayhurst NM Section 9 CTB

<b>Location of Release Source</b>	
Site Name	HAYHURST NM SECTION 9 CTB
Date Release Discovered	01/13/2023
Surface Owner	Federal

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	6,041
What is the estimated number of samples that will be gathered	55
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/21/2023
Time sampling will commence	10:53 AM
Please provide any information necessary for observers to contact samplers	Tetra Tech/432-741-5813
Please provide any information necessary for navigation to sampling site	From the intersection of US-285 and Whites City Road, drive west on Whites City Road 7.83 miles. Turn left and drive south 0.63 mile. Turn right and drive west 0.19 mile. Turn right and drive north 385 ft (0.07 mile). The center of the spill site is 115 ft to the left at GPS 32.052696, -104.200416.

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

CONDITIONS  
 Action 296099

**CONDITIONS**

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 296099
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**CONDITIONS**

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	12/19/2023



# Appendix B

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## Site Characterization Documents



USGS Home  
Contact USGS  
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area: United States GO

Click to hide News Bulletins

- Explore the [NEW USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for the Nation

Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs  
site\_no list = 

- 320343104110201

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 320343104110201 26S.27E.08.13230

Eddy County, New Mexico  
Latitude 32°03'32.4", Longitude 104°13'03.9" NAD83  
Land-surface elevation 3,182.10 feet above NGVD29  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1978-01-03			D	62610	3164.52	NGVD29	1	Z			A
1978-01-03			D	62611	3166.18	NAVD88	1	Z			A
1978-01-03			D	72019	17.58		1	Z			A
1983-01-05			D	62610	3166.54	NGVD29	1	Z			A
1983-01-05			D	62611	3168.20	NAVD88	1	Z			A
1983-01-05			D	72019	15.56		1	Z			A
1987-10-08			D	62610	3167.72	NGVD29	1	Z			A
1987-10-08			D	62611	3169.38	NAVD88	1	Z			A
1987-10-08			D	72019	14.38		1	Z			A
1992-11-04			D	62610	3165.85	NGVD29	1	S			A
1992-11-04			D	62611	3167.51	NAVD88	1	S			A
1992-11-04			D	72019	16.25		1	S			A
1998-01-13			D	62610	3165.45	NGVD29	1	S			A
1998-01-13			D	62611	3167.11	NAVD88	1	S			A
1998-01-13			D	72019	16.65		1	S			A
2003-01-28			D	62610	3164.88	NGVD29	1	S	USGS	S	A
2003-01-28			D	62611	3166.54	NAVD88	1	S	USGS	S	A
2003-01-28			D	72019	17.22		1	S	USGS	S	A
2013-01-09	21:45 UTC		m	62610	3173.16	NGVD29	1	S	USGS	S	A
2013-01-09	21:45 UTC		m	62611	3174.82	NAVD88	1	S	USGS	S	A
2013-01-09	21:45 UTC		m	72019	8.94		1	S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet

Section	Code	Description
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Title: Groundwater for USA: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**



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Page Last Modified: 2023-03-23 18:09:08 EDT

0.28 0.24 nadww01



**National Water Information System: Web Interface**

USGS Water Resources

Data Category: Groundwater Geographic Area: United States GO

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Groundwater levels for the Nation

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**Search Results -- 1 sites found**

Agency code = usgs  
 site\_no list = 

- 320323104112901

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

**USGS 320323104112901 26S.27E.07.414444**

Eddy County, New Mexico  
 Latitude 32°03'23", Longitude 104°11'29" NAD27  
 Land-surface elevation 3,268 feet above NAVD88  
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
 This well is completed in the Castile Formation (312CSTL) local aquifer.

**Output formats**

<a href="#">Table of data</a>
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Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1978-01-25			D	62610	3257.04	NGVD29	1	Z			A
1978-01-25			D	62611	3258.69	NAVD88	1	Z			A
1978-01-25			D	72019	9.31		1	Z			A
1983-01-25			D	62610	3258.77	NGVD29	P	Z			A
1983-01-25			D	62611	3260.42	NAVD88	P	Z			A
1983-01-25			D	72019	7.58		P	Z			A
1987-10-08			D	62610	3258.70	NGVD29	1	Z			A
1987-10-08			D	62611	3260.35	NAVD88	1	Z			A
1987-10-08			D	72019	7.65		1	Z			A
1988-04-07			D	62610	3259.93	NGVD29	1	Z			A
1988-04-07			D	62611	3261.58	NAVD88	1	Z			A
1988-04-07			D	72019	6.42		1	Z			A
1992-11-18			D	62610	3257.57	NGVD29	1	S			A
1992-11-18			D	62611	3259.22	NAVD88	1	S			A
1992-11-18			D	72019	8.78		1	S			A
1998-01-13			D	62610	3252.60	NGVD29	1	S			A
1998-01-13			D	62611	3254.25	NAVD88	1	S			A
1998-01-13			D	72019	13.75		1	S			A
2003-01-28			D	62610	3248.60	NGVD29	1	S	USGS	S	A
2003-01-28			D	62611	3250.25	NAVD88	1	S	USGS	S	A
2003-01-28			D	72019	17.75		1	S	USGS	S	A

**Explanation**

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet

Section	Code	Description
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Title: Groundwater for USA: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**



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Page Last Modified: 2023-03-23 18:03:45 EDT

0.3 0.27 nadww01



# New Mexico Office of the State Engineer

## Point of Diversion Summary

<b>Well Tag</b>	<b>POD Number</b>	(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
		<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>		
	C 02588	3	4	3	33	25S	27E	575645	3549575*		

<b>Driller License:</b> 1348	<b>Driller Company:</b> TAYLOR WATER WELL SERVICE	
<b>Driller Name:</b>		
<b>Drill Start Date:</b> 05/31/1998	<b>Drill Finish Date:</b> 06/03/1998	<b>Plug Date:</b>
<b>Log File Date:</b> 08/24/1998	<b>PCW Rev Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 2 GPM
<b>Casing Size:</b> 5.00	<b>Depth Well:</b> 81 feet	<b>Depth Water:</b> 19 feet

Water Bearing Stratifications:	Top	Bottom	Description
	21	23	Other/Unknown
	52	81	Other/Unknown

Casing Perforations:	Top	Bottom
	53	81

\*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.

3/23/23 4:14 PM

POINT OF DIVERSION SUMMARY



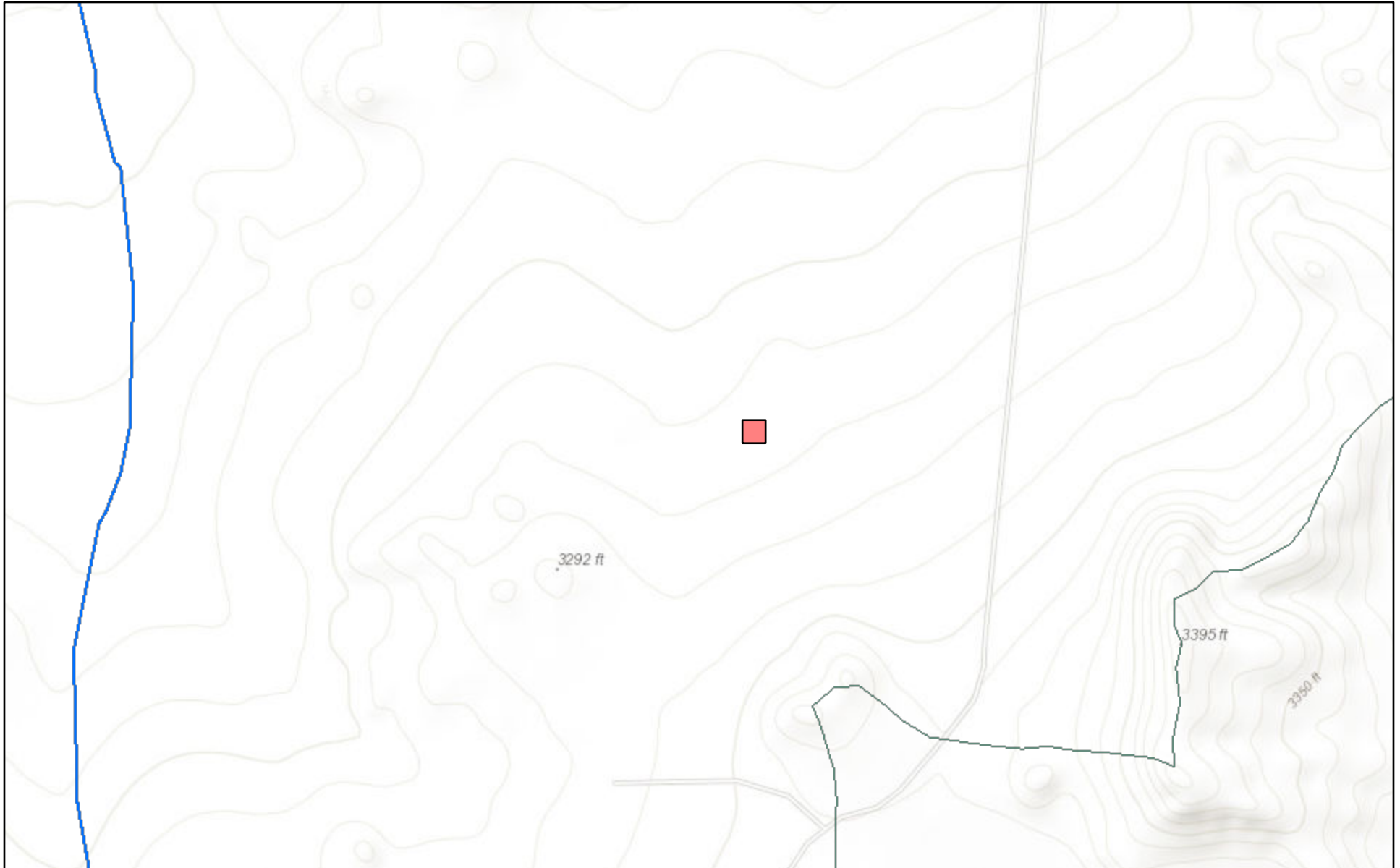


National Water Information System: Mapper

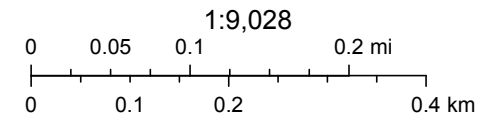


Site Information

# New Mexico NFHL Data



March 23, 2023



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

[nmflood.org](http://nmflood.org) is made possible through a collaboration with NMDHSEM,

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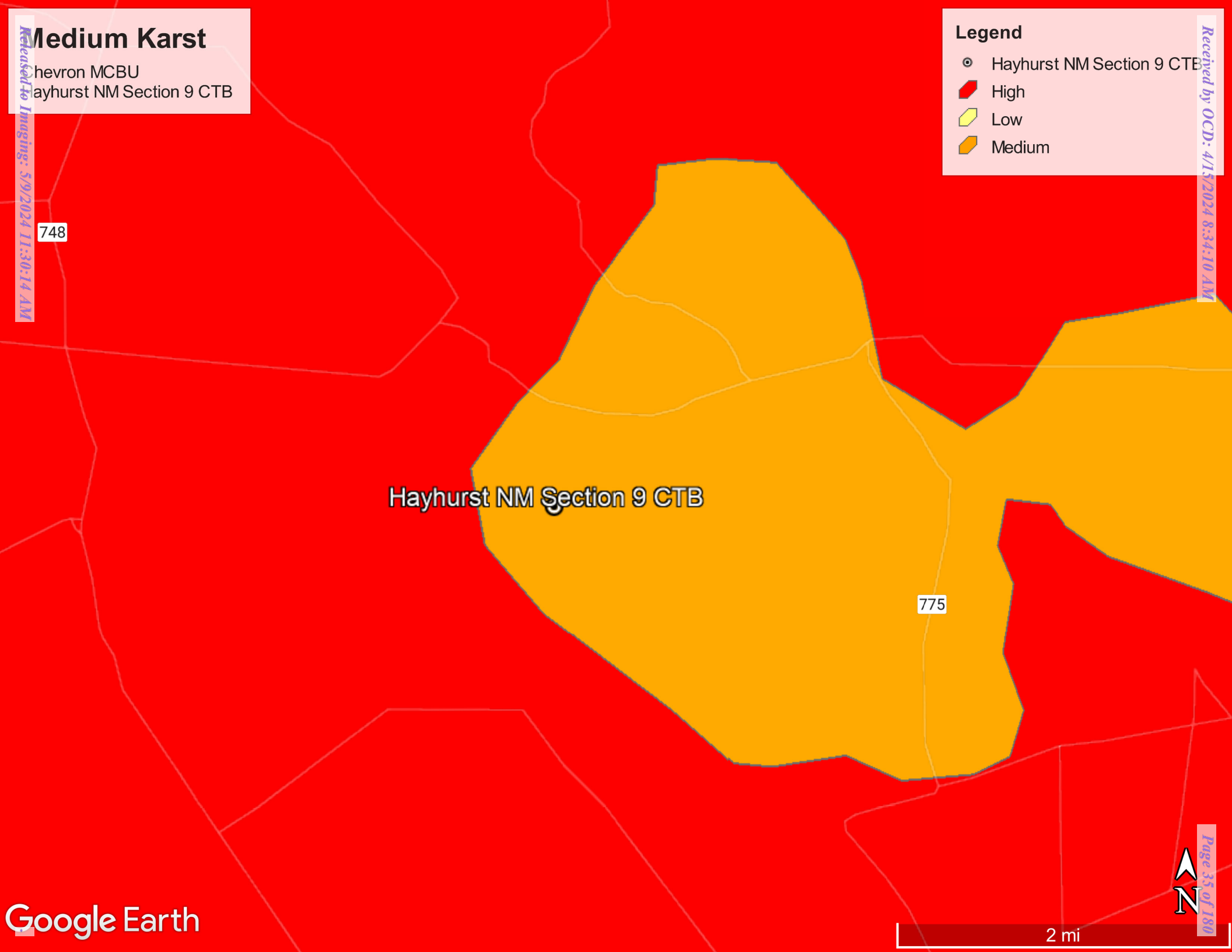
**Medium Karst**  
Chevron MCBU  
Hayhurst NM Section 9 CTB

**Legend**

- Hayhurst NM Section 9 CTB
- High
- Low
- Medium

Released to Imaging: 5/9/2024 11:30:14 AM

Received by: OCD: 4/15/2024 8:34:10 AM





# Appendix C

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Laboratory Reports



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Brittany Long  
 Tetra Tech, Inc.  
 901 W Wall  
 Ste 100  
 Midland, Texas 79701

Generated 3/28/2023 1:46:46 PM Revision 1

## JOB DESCRIPTION

Hayhurst NM Section 9 CTB  
 SDG NUMBER Eddy County NM

## JOB NUMBER

890-4270-1

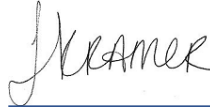


# Eurofins Carlsbad

## Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated  
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Revision 1

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Laboratory Job ID: 890-4270-1  
SDG: Eddy County NM

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Client Sample Results . . . . .	7
Surrogate Summary . . . . .	35
QC Sample Results . . . . .	38
QC Association Summary . . . . .	49
Lab Chronicle . . . . .	59
Certification Summary . . . . .	71
Method Summary . . . . .	72
Sample Summary . . . . .	73
Chain of Custody . . . . .	74
Receipt Checklists . . . . .	78

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Definitions/Glossary

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



## Case Narrative

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

**Job ID: 890-4270-1****Laboratory: Eurofins Carlsbad****Narrative**

**Job Narrative**  
**890-4270-1**

REVISION

The report being provided is a revision of the original report sent on 3/21/2023. The report (revision 1) is being revised due to Per client email, requesting chloride re run.

Report revision history

**Receipt**

The samples were received on 3/10/2023 8:41 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (890-4270-1), H-2 (890-4270-2), H-3 (890-4270-3), H-4 (890-4270-4), H-5 (890-4270-5), H-6 (890-4270-6), AH-1 (0-1') (890-4270-7), AH-1 (1-1.5') (890-4270-8), AH-1 (2-2.5') (890-4270-9), AH-1 (3-3.5') (890-4270-10), AH-1 (4-4.5') (890-4270-11), AH-2 (0-1') (890-4270-12), AH-2 (1-1.5') (890-4270-13), AH-2 (2-2.5') (890-4270-14), AH-2 (3-3.5') (890-4270-15), AH-2 (4-4.5') (890-4270-16), AH-3 (0-1') (890-4270-17), AH-3 (1-1.5') (890-4270-18), AH-3 (2-2.5') (890-4270-19), AH-3 (3-3.5') (890-4270-20), AH-4 (0-1') (890-4270-21), AH-4 (1-1.5') (890-4270-22), AH-4 (2-2.5') (890-4270-23), AH-4 (3-3.5') (890-4270-24), AH-5 (0-1') (890-4270-25), AH-5 (1-1.5') (890-4270-26), AH-5 (2-2.5') (890-4270-27), AH-5 (3-3.5') (890-4270-28), AH-6 (0-1') (890-4270-29), AH-6 (1-1.5') (890-4270-30), AH-6 (2-2.5') (890-4270-31), AH-6 (3-3.5') (890-4270-32), AH-7 (0-1') (890-4270-33), AH-7 (1-1.5') (890-4270-34), AH-7 (2-2.5') (890-4270-35), AH-7 (3-3.5') (890-4270-36) and AH-7 (4-4.5') (890-4270-37).

**GC VOA**

Method 8021B: Surrogate recovery for the following samples were outside control limits: AH-6 (3-3.5) (890-4270-32) and AH-7 (0-1') (890-4270-33). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-48753 and analytical batch 880-48914 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4270-A-1-G MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-48754 and analytical batch 880-48949 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: AH-4 (1-1.5') (890-4270-22), AH-4 (2-2.5') (890-4270-23), AH-4 (3-3.5') (890-4270-24), AH-5 (0-1') (890-4270-25) and AH-5 (1-1.5') (890-4270-26). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-48754 and analytical batch 880-48949 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-48572 and analytical batch 880-48566 was outside the upper control limits.

## Case Narrative

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

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### Job ID: 890-4270-1 (Continued)

---

#### Laboratory: Eurofins Carlsbad (Continued)

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-48571 and analytical batch 880-48564 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

Client Sample ID: H-1

Lab Sample ID: 890-4270-1

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199		mg/Kg		03/16/23 13:18	03/20/23 15:30	1
Toluene	<0.00199	U F2	0.00199		mg/Kg		03/16/23 13:18	03/20/23 15:30	1
Ethylbenzene	<0.00199	U F1 F2	0.00199		mg/Kg		03/16/23 13:18	03/20/23 15:30	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		03/16/23 13:18	03/20/23 15:30	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		03/16/23 13:18	03/20/23 15:30	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		03/16/23 13:18	03/20/23 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/16/23 13:18	03/20/23 15:30	1
1,4-Difluorobenzene (Surr)	115		70 - 130	03/16/23 13:18	03/20/23 15:30	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/21/23 09:30	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:46	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 11:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 11:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 11:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/14/23 08:40	03/14/23 11:26	1
o-Terphenyl	93		70 - 130	03/14/23 08:40	03/14/23 11:26	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.1		4.96		mg/Kg			03/18/23 14:37	1

Client Sample ID: H-2

Lab Sample ID: 890-4270-2

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/16/23 13:18	03/20/23 15:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/16/23 13:18	03/20/23 15:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/16/23 13:18	03/20/23 15:50	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/16/23 13:18	03/20/23 15:50	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/16/23 13:18	03/20/23 15:50	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/16/23 13:18	03/20/23 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/16/23 13:18	03/20/23 15:50	1
1,4-Difluorobenzene (Surr)	113		70 - 130	03/16/23 13:18	03/20/23 15:50	1

Eurofins Carlsbad

### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: H-2**

**Lab Sample ID: 890-4270-2**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 12:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 12:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 12:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/14/23 08:40	03/14/23 12:31	1
o-Terphenyl	93		70 - 130	03/14/23 08:40	03/14/23 12:31	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.6		5.01		mg/Kg			03/18/23 14:52	1

**Client Sample ID: H-3**

**Lab Sample ID: 890-4270-3**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 16:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 16:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 16:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/16/23 13:18	03/20/23 16:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 16:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/16/23 13:18	03/20/23 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	03/16/23 13:18	03/20/23 16:10	1
1,4-Difluorobenzene (Surr)	113		70 - 130	03/16/23 13:18	03/20/23 16:10	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/14/23 08:40	03/14/23 12:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/14/23 08:40	03/14/23 12:54	1

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: H-3**  
 Date Collected: 03/09/23 00:00  
 Date Received: 03/10/23 08:41

**Lab Sample ID: 890-4270-3**  
 Matrix: Solid

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/14/23 08:40	03/14/23 12:54	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	86		70 - 130				03/14/23 08:40	03/14/23 12:54	1
o-Terphenyl	86		70 - 130				03/14/23 08:40	03/14/23 12:54	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.5		4.97		mg/Kg			03/18/23 14:57	1

**Client Sample ID: H-4**  
 Date Collected: 03/09/23 00:00  
 Date Received: 03/10/23 08:41

**Lab Sample ID: 890-4270-4**  
 Matrix: Solid

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 16:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 16:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 16:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/16/23 13:18	03/20/23 16:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 16:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/16/23 13:18	03/20/23 16:31	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	89		70 - 130				03/16/23 13:18	03/20/23 16:31	1
1,4-Difluorobenzene (Surr)	115		70 - 130				03/16/23 13:18	03/20/23 16:31	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 13:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 13:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 13:15	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	81		70 - 130				03/14/23 08:40	03/14/23 13:15	1
o-Terphenyl	83		70 - 130				03/14/23 08:40	03/14/23 13:15	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.2		4.96		mg/Kg			03/18/23 15:01	1

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: H-5**  
**Date Collected: 03/09/23 00:00**  
**Date Received: 03/10/23 08:41**

**Lab Sample ID: 890-4270-5**  
**Matrix: Solid**

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 16:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 16:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 16:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/16/23 13:18	03/20/23 16:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 16:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/16/23 13:18	03/20/23 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	03/16/23 13:18	03/20/23 16:51	1
1,4-Difluorobenzene (Surr)	114		70 - 130	03/16/23 13:18	03/20/23 16:51	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 13:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 13:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	03/14/23 08:40	03/14/23 13:37	1
o-Terphenyl	88		70 - 130	03/14/23 08:40	03/14/23 13:37	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.3		5.04		mg/Kg			03/18/23 15:06	1

**Client Sample ID: H-6**  
**Date Collected: 03/09/23 00:00**  
**Date Received: 03/10/23 08:41**

**Lab Sample ID: 890-4270-6**  
**Matrix: Solid**

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/16/23 13:18	03/20/23 17:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/16/23 13:18	03/20/23 17:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/16/23 13:18	03/20/23 17:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/16/23 13:18	03/20/23 17:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/16/23 13:18	03/20/23 17:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/16/23 13:18	03/20/23 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	03/16/23 13:18	03/20/23 17:12	1
1,4-Difluorobenzene (Surr)	113		70 - 130	03/16/23 13:18	03/20/23 17:12	1

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: H-6**

**Lab Sample ID: 890-4270-6**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 13:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 13:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	03/14/23 08:40	03/14/23 13:59	1
o-Terphenyl	92		70 - 130	03/14/23 08:40	03/14/23 13:59	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.7		5.04		mg/Kg			03/18/23 15:11	1

**Client Sample ID: AH-1 (0-1')**

**Lab Sample ID: 890-4270-7**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:18	03/20/23 17:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:18	03/20/23 17:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:18	03/20/23 17:32	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/16/23 13:18	03/20/23 17:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:18	03/20/23 17:32	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/16/23 13:18	03/20/23 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	03/16/23 13:18	03/20/23 17:32	1
1,4-Difluorobenzene (Surr)	111		70 - 130	03/16/23 13:18	03/20/23 17:32	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 14:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 14:21	1

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-1 (0-1')**

**Lab Sample ID: 890-4270-7**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				03/14/23 08:40	03/14/23 14:21	1
o-Terphenyl	100		70 - 130				03/14/23 08:40	03/14/23 14:21	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.8		4.98		mg/Kg			03/18/23 15:16	1

**Client Sample ID: AH-1 (1-1.5')**

**Lab Sample ID: 890-4270-8**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/16/23 13:18	03/20/23 17:53	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/16/23 13:18	03/20/23 17:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/16/23 13:18	03/20/23 17:53	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/16/23 13:18	03/20/23 17:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/16/23 13:18	03/20/23 17:53	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/16/23 13:18	03/20/23 17:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/16/23 13:18	03/20/23 17:53	1
1,4-Difluorobenzene (Surr)	115		70 - 130				03/16/23 13:18	03/20/23 17:53	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 14:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 14:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 14:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				03/14/23 08:40	03/14/23 14:43	1
o-Terphenyl	92		70 - 130				03/14/23 08:40	03/14/23 14:43	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.8		4.96		mg/Kg			03/18/23 15:21	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

Client Sample ID: AH-1 (2-2.5')

Lab Sample ID: 890-4270-9

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 18:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 18:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 18:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/16/23 13:18	03/20/23 18:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 18:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/16/23 13:18	03/20/23 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/16/23 13:18	03/20/23 18:13	1
1,4-Difluorobenzene (Surr)	118		70 - 130	03/16/23 13:18	03/20/23 18:13	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/21/23 09:30	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/21/23 09:46	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/14/23 08:40	03/14/23 15:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/14/23 08:40	03/14/23 15:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/14/23 08:40	03/14/23 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/14/23 08:40	03/14/23 15:05	1
o-Terphenyl	96		70 - 130	03/14/23 08:40	03/14/23 15:05	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		25.0		mg/Kg			03/20/23 01:55	5

Client Sample ID: AH-1 (3-3.5')

Lab Sample ID: 890-4270-10

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 18:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 18:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 18:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/16/23 13:18	03/20/23 18:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 18:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/16/23 13:18	03/20/23 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	03/16/23 13:18	03/20/23 18:34	1
1,4-Difluorobenzene (Surr)	113		70 - 130	03/16/23 13:18	03/20/23 18:34	1

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-1 (3-3.5')**

**Lab Sample ID: 890-4270-10**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 15:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 15:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/14/23 08:40	03/14/23 15:27	1
o-Terphenyl	100		70 - 130	03/14/23 08:40	03/14/23 15:27	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	379		25.0		mg/Kg			03/20/23 02:09	5

**Client Sample ID: AH-1 (4-4.5')**

**Lab Sample ID: 890-4270-11**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 20:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 20:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 20:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/16/23 13:18	03/20/23 20:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 20:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/16/23 13:18	03/20/23 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/16/23 13:18	03/20/23 20:24	1
1,4-Difluorobenzene (Surr)	112		70 - 130	03/16/23 13:18	03/20/23 20:24	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 16:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 16:12	1

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-1 (4-4.5')**

**Lab Sample ID: 890-4270-11**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 16:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				03/14/23 08:40	03/14/23 16:12	1
o-Terphenyl	91		70 - 130				03/14/23 08:40	03/14/23 16:12	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	865		24.8		mg/Kg			03/20/23 02:14	5

**Client Sample ID: AH-2 (0-1')**

**Lab Sample ID: 890-4270-12**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 20:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 20:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 20:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/16/23 13:18	03/20/23 20:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 20:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/16/23 13:18	03/20/23 20:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				03/16/23 13:18	03/20/23 20:44	1
1,4-Difluorobenzene (Surr)	114		70 - 130				03/16/23 13:18	03/20/23 20:44	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 16:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 16:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 16:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				03/14/23 08:40	03/14/23 16:34	1
o-Terphenyl	86		70 - 130				03/14/23 08:40	03/14/23 16:34	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.3		5.04		mg/Kg			03/20/23 02:19	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

Client Sample ID: AH-2 (1-1.5')

Lab Sample ID: 890-4270-13

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 21:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 21:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 21:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/16/23 13:18	03/20/23 21:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 21:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/16/23 13:18	03/20/23 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/16/23 13:18	03/20/23 21:04	1
1,4-Difluorobenzene (Surr)	117		70 - 130	03/16/23 13:18	03/20/23 21:04	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/21/23 09:30	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/21/23 09:46	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 16:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 16:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	03/14/23 08:40	03/14/23 16:56	1
o-Terphenyl	84		70 - 130	03/14/23 08:40	03/14/23 16:56	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	353		5.01		mg/Kg			03/20/23 02:24	1

Client Sample ID: AH-2 (2-2.5')

Lab Sample ID: 890-4270-14

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 21:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 21:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 21:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/16/23 13:18	03/20/23 21:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 21:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/16/23 13:18	03/20/23 21:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/16/23 13:18	03/20/23 21:25	1
1,4-Difluorobenzene (Surr)	110		70 - 130	03/16/23 13:18	03/20/23 21:25	1

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-2 (2-2.5')**

**Lab Sample ID: 890-4270-14**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 17:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 17:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	03/14/23 08:40	03/14/23 17:17	1
o-Terphenyl	84		70 - 130	03/14/23 08:40	03/14/23 17:17	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	503		25.1		mg/Kg			03/20/23 02:39	5

**Client Sample ID: AH-2 (3-3.5')**

**Lab Sample ID: 890-4270-15**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 21:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 21:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 21:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/16/23 13:18	03/20/23 21:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 21:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/16/23 13:18	03/20/23 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	03/16/23 13:18	03/20/23 21:45	1
1,4-Difluorobenzene (Surr)	116		70 - 130	03/16/23 13:18	03/20/23 21:45	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 17:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 17:39	1

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-2 (3-3.5')**

**Lab Sample ID: 890-4270-15**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 17:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	102		70 - 130				03/14/23 08:40	03/14/23 17:39	1
o-Terphenyl	100		70 - 130				03/14/23 08:40	03/14/23 17:39	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	385		24.8		mg/Kg			03/20/23 02:43	5

**Client Sample ID: AH-2 (4-4.5')**

**Lab Sample ID: 890-4270-16**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 22:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 22:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 22:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/16/23 13:18	03/20/23 22:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 22:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/16/23 13:18	03/20/23 22:06	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	107		70 - 130				03/16/23 13:18	03/20/23 22:06	1
1,4-Difluorobenzene (Surr)	115		70 - 130				03/16/23 13:18	03/20/23 22:06	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/14/23 08:40	03/14/23 18:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/14/23 08:40	03/14/23 18:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/14/23 08:40	03/14/23 18:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	97		70 - 130				03/14/23 08:40	03/14/23 18:01	1
o-Terphenyl	94		70 - 130				03/14/23 08:40	03/14/23 18:01	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	242		4.96		mg/Kg			03/20/23 02:48	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

Client Sample ID: AH-3 (0-1')

Lab Sample ID: 890-4270-17

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:18	03/20/23 22:26	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:18	03/20/23 22:26	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:18	03/20/23 22:26	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/16/23 13:18	03/20/23 22:26	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:18	03/20/23 22:26	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/16/23 13:18	03/20/23 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/16/23 13:18	03/20/23 22:26	1
1,4-Difluorobenzene (Surr)	111		70 - 130	03/16/23 13:18	03/20/23 22:26	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/21/23 09:30	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/21/23 09:46	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 18:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 18:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	03/14/23 08:40	03/14/23 18:24	1
o-Terphenyl	99		70 - 130	03/14/23 08:40	03/14/23 18:24	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2290		50.2		mg/Kg			03/20/23 02:53	10

Client Sample ID: AH-3 (1-1.5')

Lab Sample ID: 890-4270-18

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/16/23 13:18	03/20/23 22:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/16/23 13:18	03/20/23 22:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/16/23 13:18	03/20/23 22:47	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/16/23 13:18	03/20/23 22:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/16/23 13:18	03/20/23 22:47	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/16/23 13:18	03/20/23 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/16/23 13:18	03/20/23 22:47	1
1,4-Difluorobenzene (Surr)	113		70 - 130	03/16/23 13:18	03/20/23 22:47	1

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-3 (1-1.5')**

**Lab Sample ID: 890-4270-18**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/14/23 08:40	03/14/23 18:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/14/23 08:40	03/14/23 18:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/14/23 08:40	03/14/23 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	03/14/23 08:40	03/14/23 18:46	1
o-Terphenyl	84		70 - 130	03/14/23 08:40	03/14/23 18:46	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	715		4.99		mg/Kg			03/20/23 02:58	1

**Client Sample ID: AH-3 (2-2.5')**

**Lab Sample ID: 890-4270-19**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 23:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 23:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 23:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/16/23 13:18	03/20/23 23:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:18	03/20/23 23:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/16/23 13:18	03/20/23 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	03/16/23 13:18	03/20/23 23:07	1
1,4-Difluorobenzene (Surr)	114		70 - 130	03/16/23 13:18	03/20/23 23:07	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 19:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 19:08	1

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-3 (2-2.5')**

**Lab Sample ID: 890-4270-19**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 19:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	94		70 - 130				03/14/23 08:40	03/14/23 19:08	1
o-Terphenyl	94		70 - 130				03/14/23 08:40	03/14/23 19:08	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.1		4.96		mg/Kg			03/20/23 03:03	1

**Client Sample ID: AH-3 (3-3.5')**

**Lab Sample ID: 890-4270-20**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 23:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 23:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 23:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/16/23 13:18	03/20/23 23:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 23:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/16/23 13:18	03/20/23 23:28	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	101		70 - 130				03/16/23 13:18	03/20/23 23:28	1
1,4-Difluorobenzene (Surr)	112		70 - 130				03/16/23 13:18	03/20/23 23:28	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 19:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 19:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 08:40	03/14/23 19:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	102		70 - 130				03/14/23 08:40	03/14/23 19:30	1
o-Terphenyl	101		70 - 130				03/14/23 08:40	03/14/23 19:30	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		25.1		mg/Kg			03/20/23 03:17	5

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

Client Sample ID: AH-4 (0-1')

Lab Sample ID: 890-4270-21

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1 F2	0.00198		mg/Kg		03/16/23 13:22	03/20/23 23:08	1
Toluene	<0.00198	U F1	0.00198		mg/Kg		03/16/23 13:22	03/20/23 23:08	1
Ethylbenzene	<0.00198	U F1	0.00198		mg/Kg		03/16/23 13:22	03/20/23 23:08	1
m-Xylene & p-Xylene	<0.00396	U F1	0.00396		mg/Kg		03/16/23 13:22	03/20/23 23:08	1
o-Xylene	<0.00198	U F1	0.00198		mg/Kg		03/16/23 13:22	03/20/23 23:08	1
Xylenes, Total	<0.00396	U F1	0.00396		mg/Kg		03/16/23 13:22	03/20/23 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	03/16/23 13:22	03/20/23 23:08	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/16/23 13:22	03/20/23 23:08	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/21/23 09:30	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/21/23 09:46	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/14/23 08:46	03/14/23 11:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/14/23 08:46	03/14/23 11:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/14/23 08:46	03/14/23 11:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	03/14/23 08:46	03/14/23 11:26	1
o-Terphenyl	98		70 - 130	03/14/23 08:46	03/14/23 11:26	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1440		49.5		mg/Kg			03/20/23 03:22	10

Client Sample ID: AH-4 (1-1.5')

Lab Sample ID: 890-4270-22

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:22	03/20/23 23:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:22	03/20/23 23:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:22	03/20/23 23:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/16/23 13:22	03/20/23 23:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:22	03/20/23 23:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/16/23 13:22	03/20/23 23:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	03/16/23 13:22	03/20/23 23:28	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130	03/16/23 13:22	03/20/23 23:28	1

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-4 (1-1.5')**

**Lab Sample ID: 890-4270-22**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 12:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 12:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 12:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	03/14/23 08:46	03/14/23 12:31	1
o-Terphenyl	108		70 - 130	03/14/23 08:46	03/14/23 12:31	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	486		24.8		mg/Kg			03/20/23 03:37	5

**Client Sample ID: AH-4 (2-2.5')**

**Lab Sample ID: 890-4270-23**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:22	03/20/23 23:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:22	03/20/23 23:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:22	03/20/23 23:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/16/23 13:22	03/20/23 23:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:22	03/20/23 23:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/16/23 13:22	03/20/23 23:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	03/16/23 13:22	03/20/23 23:49	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130	03/16/23 13:22	03/20/23 23:49	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 08:46	03/14/23 12:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 08:46	03/14/23 12:54	1

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-4 (2-2.5')**  
 Date Collected: 03/09/23 00:00  
 Date Received: 03/10/23 08:41

**Lab Sample ID: 890-4270-23**  
 Matrix: Solid

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 08:46	03/14/23 12:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				03/14/23 08:46	03/14/23 12:54	1
o-Terphenyl	105		70 - 130				03/14/23 08:46	03/14/23 12:54	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	333		5.03		mg/Kg			03/20/23 03:41	1

**Client Sample ID: AH-4 (3-3.5')**  
 Date Collected: 03/09/23 00:00  
 Date Received: 03/10/23 08:41

**Lab Sample ID: 890-4270-24**  
 Matrix: Solid

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:22	03/21/23 00:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:22	03/21/23 00:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:22	03/21/23 00:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/16/23 13:22	03/21/23 00:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:22	03/21/23 00:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/16/23 13:22	03/21/23 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				03/16/23 13:22	03/21/23 00:09	1
1,4-Difluorobenzene (Surr)	59	S1-	70 - 130				03/16/23 13:22	03/21/23 00:09	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 13:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 13:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				03/14/23 08:46	03/14/23 13:15	1
o-Terphenyl	106		70 - 130				03/14/23 08:46	03/14/23 13:15	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.2		4.95		mg/Kg			03/20/23 03:46	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTBJob ID: 890-4270-1  
SDG: Eddy County NM

Client Sample ID: AH-5 (0-1')

Lab Sample ID: 890-4270-25

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:22	03/21/23 00:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:22	03/21/23 00:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:22	03/21/23 00:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/16/23 13:22	03/21/23 00:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:22	03/21/23 00:30	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/16/23 13:22	03/21/23 00:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	03/16/23 13:22	03/21/23 00:30	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130	03/16/23 13:22	03/21/23 00:30	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/21/23 09:30	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/21/23 09:46	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 08:46	03/14/23 13:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 08:46	03/14/23 13:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 08:46	03/14/23 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	03/14/23 08:46	03/14/23 13:37	1
o-Terphenyl	101		70 - 130	03/14/23 08:46	03/14/23 13:37	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.4		4.95		mg/Kg			03/20/23 03:51	1

Client Sample ID: AH-5 (1-1.5')

Lab Sample ID: 890-4270-26

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/16/23 13:22	03/21/23 00:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/16/23 13:22	03/21/23 00:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/16/23 13:22	03/21/23 00:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/16/23 13:22	03/21/23 00:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/16/23 13:22	03/21/23 00:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/16/23 13:22	03/21/23 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	03/16/23 13:22	03/21/23 00:50	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130	03/16/23 13:22	03/21/23 00:50	1

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-5 (1-1.5')**  
 Date Collected: 03/09/23 00:00  
 Date Received: 03/10/23 08:41

**Lab Sample ID: 890-4270-26**  
 Matrix: Solid

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/14/23 08:46	03/14/23 13:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/14/23 08:46	03/14/23 13:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/14/23 08:46	03/14/23 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	03/14/23 08:46	03/14/23 13:59	1
o-Terphenyl	103		70 - 130	03/14/23 08:46	03/14/23 13:59	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		4.95		mg/Kg			03/20/23 03:56	1

**Client Sample ID: AH-5 (2-2.5')**  
 Date Collected: 03/09/23 00:00  
 Date Received: 03/10/23 08:41

**Lab Sample ID: 890-4270-27**  
 Matrix: Solid

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:22	03/21/23 01:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:22	03/21/23 01:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:22	03/21/23 01:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/16/23 13:22	03/21/23 01:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:22	03/21/23 01:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/16/23 13:22	03/21/23 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	03/16/23 13:22	03/21/23 01:10	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/16/23 13:22	03/21/23 01:10	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 14:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 14:21	1

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-5 (2-2.5')**

**Lab Sample ID: 890-4270-27**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 14:21	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	103		70 - 130				03/14/23 08:46	03/14/23 14:21	1
o-Terphenyl	116		70 - 130				03/14/23 08:46	03/14/23 14:21	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		5.02		mg/Kg			03/20/23 04:01	1

**Client Sample ID: AH-5 (3-3.5')**

**Lab Sample ID: 890-4270-28**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/16/23 13:22	03/21/23 01:31	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/16/23 13:22	03/21/23 01:31	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/16/23 13:22	03/21/23 01:31	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/16/23 13:22	03/21/23 01:31	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/16/23 13:22	03/21/23 01:31	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/16/23 13:22	03/21/23 01:31	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	111		70 - 130				03/16/23 13:22	03/21/23 01:31	1
1,4-Difluorobenzene (Surr)	84		70 - 130				03/16/23 13:22	03/21/23 01:31	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 14:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 14:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 14:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	89		70 - 130				03/14/23 08:46	03/14/23 14:43	1
o-Terphenyl	102		70 - 130				03/14/23 08:46	03/14/23 14:43	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		4.97		mg/Kg			03/20/23 04:06	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

Client Sample ID: AH-6 (0-1')

Lab Sample ID: 890-4270-29

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:22	03/21/23 01:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:22	03/21/23 01:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:22	03/21/23 01:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/16/23 13:22	03/21/23 01:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:22	03/21/23 01:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/16/23 13:22	03/21/23 01:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	03/16/23 13:22	03/21/23 01:51	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130	03/16/23 13:22	03/21/23 01:51	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/21/23 09:30	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/21/23 09:46	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/14/23 08:46	03/14/23 15:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/14/23 08:46	03/14/23 15:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/14/23 08:46	03/14/23 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	03/14/23 08:46	03/14/23 15:05	1
o-Terphenyl	104		70 - 130	03/14/23 08:46	03/14/23 15:05	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2250		50.4		mg/Kg			03/20/23 01:41	10

Client Sample ID: AH-6 (1-1.5')

Lab Sample ID: 890-4270-30

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:22	03/21/23 02:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:22	03/21/23 02:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:22	03/21/23 02:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/16/23 13:22	03/21/23 02:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:22	03/21/23 02:12	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/16/23 13:22	03/21/23 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	03/16/23 13:22	03/21/23 02:12	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/16/23 13:22	03/21/23 02:12	1

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-6 (1-1.5')**  
 Date Collected: 03/09/23 00:00  
 Date Received: 03/10/23 08:41

**Lab Sample ID: 890-4270-30**  
 Matrix: Solid

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/14/23 08:46	03/14/23 15:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/14/23 08:46	03/14/23 15:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/14/23 08:46	03/14/23 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	03/14/23 08:46	03/14/23 15:27	1
o-Terphenyl	118		70 - 130	03/14/23 08:46	03/14/23 15:27	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	557		4.96		mg/Kg			03/27/23 13:29	1

**Client Sample ID: AH-6 (2-2.5')**  
 Date Collected: 03/09/23 00:00  
 Date Received: 03/10/23 08:41

**Lab Sample ID: 890-4270-31**  
 Matrix: Solid

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:03	03/19/23 20:20	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:03	03/19/23 20:20	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:03	03/19/23 20:20	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/16/23 13:03	03/19/23 20:20	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:03	03/19/23 20:20	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/16/23 13:03	03/19/23 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	03/16/23 13:03	03/19/23 20:20	1
1,4-Difluorobenzene (Surr)	77		70 - 130	03/16/23 13:03	03/19/23 20:20	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 08:46	03/14/23 16:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 08:46	03/14/23 16:12	1

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-6 (2-2.5')**

**Lab Sample ID: 890-4270-31**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 08:46	03/14/23 16:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				03/14/23 08:46	03/14/23 16:12	1
o-Terphenyl	104		70 - 130				03/14/23 08:46	03/14/23 16:12	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	158		5.05		mg/Kg			03/20/23 02:01	1

**Client Sample ID: AH-6 (3-3.5)**

**Lab Sample ID: 890-4270-32**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/16/23 13:03	03/19/23 20:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/16/23 13:03	03/19/23 20:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/16/23 13:03	03/19/23 20:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/16/23 13:03	03/19/23 20:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/16/23 13:03	03/19/23 20:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/16/23 13:03	03/19/23 20:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				03/16/23 13:03	03/19/23 20:40	1
1,4-Difluorobenzene (Surr)	70		70 - 130				03/16/23 13:03	03/19/23 20:40	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 08:46	03/14/23 16:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 08:46	03/14/23 16:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 08:46	03/14/23 16:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				03/14/23 08:46	03/14/23 16:34	1
o-Terphenyl	103		70 - 130				03/14/23 08:46	03/14/23 16:34	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.5		5.01		mg/Kg			03/20/23 02:06	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

Client Sample ID: AH-7 (0-1')

Lab Sample ID: 890-4270-33

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:03	03/19/23 21:00	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:03	03/19/23 21:00	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:03	03/19/23 21:00	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/16/23 13:03	03/19/23 21:00	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:03	03/19/23 21:00	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/16/23 13:03	03/19/23 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	03/16/23 13:03	03/19/23 21:00	1
1,4-Difluorobenzene (Surr)	61	S1-	70 - 130	03/16/23 13:03	03/19/23 21:00	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/21/23 09:30	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:46	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 16:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 16:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	03/14/23 08:46	03/14/23 16:56	1
o-Terphenyl	97		70 - 130	03/14/23 08:46	03/14/23 16:56	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5970		99.8		mg/Kg			03/20/23 02:11	20

Client Sample ID: AH-7 (1-1.5')

Lab Sample ID: 890-4270-34

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:03	03/19/23 21:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:03	03/19/23 21:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:03	03/19/23 21:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/16/23 13:03	03/19/23 21:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:03	03/19/23 21:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/16/23 13:03	03/19/23 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	03/16/23 13:03	03/19/23 21:21	1
1,4-Difluorobenzene (Surr)	82		70 - 130	03/16/23 13:03	03/19/23 21:21	1

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-7 (1-1.5')**

**Lab Sample ID: 890-4270-34**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 17:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 17:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	03/14/23 08:46	03/14/23 17:17	1
o-Terphenyl	100		70 - 130	03/14/23 08:46	03/14/23 17:17	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	848		25.0		mg/Kg			03/20/23 02:26	5

**Client Sample ID: AH-7 (2-2.5')**

**Lab Sample ID: 890-4270-35**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:03	03/19/23 21:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:03	03/19/23 21:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:03	03/19/23 21:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/16/23 13:03	03/19/23 21:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/16/23 13:03	03/19/23 21:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/16/23 13:03	03/19/23 21:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	03/16/23 13:03	03/19/23 21:41	1
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130	03/16/23 13:03	03/19/23 21:41	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 17:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 17:39	1

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-7 (2-2.5')**

**Lab Sample ID: 890-4270-35**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 08:46	03/14/23 17:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				03/14/23 08:46	03/14/23 17:39	1
o-Terphenyl	98		70 - 130				03/14/23 08:46	03/14/23 17:39	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	269		25.0		mg/Kg			03/20/23 02:31	5

**Client Sample ID: AH-7 (3-3.5')**

**Lab Sample ID: 890-4270-36**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:03	03/19/23 22:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:03	03/19/23 22:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:03	03/19/23 22:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/16/23 13:03	03/19/23 22:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:03	03/19/23 22:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/16/23 13:03	03/19/23 22:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				03/16/23 13:03	03/19/23 22:02	1
1,4-Difluorobenzene (Surr)	83		70 - 130				03/16/23 13:03	03/19/23 22:02	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 08:46	03/14/23 18:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 08:46	03/14/23 18:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 08:46	03/14/23 18:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				03/14/23 08:46	03/14/23 18:01	1
o-Terphenyl	110		70 - 130				03/14/23 08:46	03/14/23 18:01	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	316		25.1		mg/Kg			03/20/23 02:36	5

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### Client Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-7 (4-4.5')**

**Lab Sample ID: 890-4270-37**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

**Method: SW846 8021B - Volatile Organic Compounds (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:03	03/19/23 22:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:03	03/19/23 22:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:03	03/19/23 22:22	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/16/23 13:03	03/19/23 22:22	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/16/23 13:03	03/19/23 22:22	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/16/23 13:03	03/19/23 22:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	03/16/23 13:03	03/19/23 22:22	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/16/23 13:03	03/19/23 22:22	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/21/23 09:30	1

**Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/21/23 09:46	1

**Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/14/23 08:46	03/14/23 18:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/14/23 08:46	03/14/23 18:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/14/23 08:46	03/14/23 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	03/14/23 08:46	03/14/23 18:24	1
o-Terphenyl	98		70 - 130	03/14/23 08:46	03/14/23 18:24	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	638		4.98		mg/Kg			03/27/23 13:34	1

## Surrogate Summary

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-4259-A-1-E MS	Matrix Spike	111	83
890-4259-A-1-F MSD	Matrix Spike Duplicate	105	104
890-4270-1	H-1	99	115
890-4270-1 MS	H-1	100	114
890-4270-1 MSD	H-1	134 S1+	136 S1+
890-4270-2	H-2	106	113
890-4270-3	H-3	93	113
890-4270-4	H-4	89	115
890-4270-5	H-5	92	114
890-4270-6	H-6	87	113
890-4270-7	AH-1 (0-1')	85	111
890-4270-8	AH-1 (1-1.5')	105	115
890-4270-9	AH-1 (2-2.5')	107	118
890-4270-10	AH-1 (3-3.5')	96	113
890-4270-11	AH-1 (4-4.5')	99	112
890-4270-12	AH-2 (0-1')	102	114
890-4270-13	AH-2 (1-1.5')	107	117
890-4270-14	AH-2 (2-2.5')	101	110
890-4270-15	AH-2 (3-3.5')	108	116
890-4270-16	AH-2 (4-4.5')	107	115
890-4270-17	AH-3 (0-1')	102	111
890-4270-18	AH-3 (1-1.5')	107	113
890-4270-19	AH-3 (2-2.5')	111	114
890-4270-20	AH-3 (3-3.5')	101	112
890-4270-21	AH-4 (0-1')	88	89
890-4270-21 MS	AH-4 (0-1')	91	110
890-4270-21 MSD	AH-4 (0-1')	92	91
890-4270-22	AH-4 (1-1.5')	87	65 S1-
890-4270-23	AH-4 (2-2.5')	90	66 S1-
890-4270-24	AH-4 (3-3.5')	79	59 S1-
890-4270-25	AH-5 (0-1')	84	64 S1-
890-4270-26	AH-5 (1-1.5')	87	66 S1-
890-4270-27	AH-5 (2-2.5')	117	101
890-4270-28	AH-5 (3-3.5')	111	84
890-4270-29	AH-6 (0-1')	105	67 S1-
890-4270-30	AH-6 (1-1.5')	89	85
890-4270-31	AH-6 (2-2.5')	85	77
890-4270-32	AH-6 (3-3.5)	88	70
890-4270-33	AH-7 (0-1')	89	61 S1-
890-4270-34	AH-7 (1-1.5')	81	82
890-4270-35	AH-7 (2-2.5')	86	62 S1-
890-4270-36	AH-7 (3-3.5')	92	83
890-4270-37	AH-7 (4-4.5')	94	89
LCS 880-48751/1-A	Lab Control Sample	112	99
LCS 880-48753/1-A	Lab Control Sample	86	111
LCS 880-48754/1-A	Lab Control Sample	108	98
LCSD 880-48751/2-A	Lab Control Sample Dup	110	102
LCSD 880-48753/2-A	Lab Control Sample Dup	89	113
LCSD 880-48754/2-A	Lab Control Sample Dup	117	99

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## Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-4270-1

Project/Site: Hayhurst NM Section 9 CTB

SDG: Eddy County NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
MB 880-48248/5-A	Method Blank	92	89
MB 880-48751/5-A	Method Blank	72	86
MB 880-48753/5-A	Method Blank	97	114
MB 880-48754/5-A	Method Blank	73	67 S1-
MB 880-48951/5-A	Method Blank	72	86

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4270-1	H-1	96	93
890-4270-1 MS	H-1	87	84
890-4270-1 MSD	H-1	97	85
890-4270-2	H-2	96	93
890-4270-3	H-3	86	86
890-4270-4	H-4	81	83
890-4270-5	H-5	90	88
890-4270-6	H-6	95	92
890-4270-7	AH-1 (0-1')	101	100
890-4270-8	AH-1 (1-1.5')	88	92
890-4270-9	AH-1 (2-2.5')	96	96
890-4270-10	AH-1 (3-3.5')	99	100
890-4270-11	AH-1 (4-4.5')	91	91
890-4270-12	AH-2 (0-1')	87	86
890-4270-13	AH-2 (1-1.5')	84	84
890-4270-14	AH-2 (2-2.5')	83	84
890-4270-15	AH-2 (3-3.5')	102	100
890-4270-16	AH-2 (4-4.5')	97	94
890-4270-17	AH-3 (0-1')	101	99
890-4270-18	AH-3 (1-1.5')	87	84
890-4270-19	AH-3 (2-2.5')	94	94
890-4270-20	AH-3 (3-3.5')	102	101
890-4270-21	AH-4 (0-1')	87	98
890-4270-21 MS	AH-4 (0-1')	96	97
890-4270-21 MSD	AH-4 (0-1')	112	118
890-4270-22	AH-4 (1-1.5')	97	108
890-4270-23	AH-4 (2-2.5')	92	105
890-4270-24	AH-4 (3-3.5')	95	106
890-4270-25	AH-5 (0-1')	91	101
890-4270-26	AH-5 (1-1.5')	91	103
890-4270-27	AH-5 (2-2.5')	103	116
890-4270-28	AH-5 (3-3.5')	89	102
890-4270-29	AH-6 (0-1')	93	104
890-4270-30	AH-6 (1-1.5')	102	118
890-4270-31	AH-6 (2-2.5')	92	104

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### Surrogate Summary

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)**

**Matrix: Solid**

**Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4270-32	AH-6 (3-3.5)	87	103
890-4270-33	AH-7 (0-1')	88	97
890-4270-34	AH-7 (1-1.5')	87	100
890-4270-35	AH-7 (2-2.5')	87	98
890-4270-36	AH-7 (3-3.5')	98	110
890-4270-37	AH-7 (4-4.5')	87	98
LCS 880-48571/2-A	Lab Control Sample	105	98
LCS 880-48572/2-A	Lab Control Sample	99	106
LCSD 880-48571/3-A	Lab Control Sample Dup	94	101
LCSD 880-48572/3-A	Lab Control Sample Dup	86	94
MB 880-48571/1-A	Method Blank	134 S1+	135 S1+
MB 880-48572/1-A	Method Blank	130	148 S1+

**Surrogate Legend**

1CO = 1-Chlorooctane  
 OTPH = o-Terphenyl

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

### QC Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

#### Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48248/5-A  
 Matrix: Solid  
 Analysis Batch: 48914

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 48248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/09/23 15:49	03/20/23 02:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 15:49	03/20/23 02:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 15:49	03/20/23 02:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/09/23 15:49	03/20/23 02:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 15:49	03/20/23 02:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/09/23 15:49	03/20/23 02:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	03/09/23 15:49	03/20/23 02:34	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/09/23 15:49	03/20/23 02:34	1

Lab Sample ID: MB 880-48751/5-A  
 Matrix: Solid  
 Analysis Batch: 48915

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 48751

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:03	03/19/23 14:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:03	03/19/23 14:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:03	03/19/23 14:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/16/23 13:03	03/19/23 14:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:03	03/19/23 14:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/16/23 13:03	03/19/23 14:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	03/16/23 13:03	03/19/23 14:51	1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/16/23 13:03	03/19/23 14:51	1

Lab Sample ID: LCS 880-48751/1-A  
 Matrix: Solid  
 Analysis Batch: 48915

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 48751

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1076		mg/Kg		108	70 - 130
Toluene	0.100	0.1074		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1109		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2528		mg/Kg		126	70 - 130
o-Xylene	0.100	0.1240		mg/Kg		124	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-48751/2-A  
 Matrix: Solid  
 Analysis Batch: 48915

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 48751

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1047		mg/Kg		105	70 - 130	3	35

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### QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

#### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-48751/2-A  
Matrix: Solid  
Analysis Batch: 48915

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 48751

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1005		mg/Kg		100	70 - 130	7	35
Ethylbenzene	0.100	0.1054		mg/Kg		105	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2343		mg/Kg		117	70 - 130	8	35
o-Xylene	0.100	0.1146		mg/Kg		115	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-4259-A-1-E MS  
Matrix: Solid  
Analysis Batch: 48915

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 48751

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.1033		mg/Kg		102	70 - 130
Toluene	<0.00201	U	0.101	0.1049		mg/Kg		104	70 - 130
Ethylbenzene	<0.00201	U	0.101	0.1086		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.202	0.2384		mg/Kg		118	70 - 130
o-Xylene	<0.00201	U	0.101	0.1161		mg/Kg		115	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: 890-4259-A-1-F MSD  
Matrix: Solid  
Analysis Batch: 48915

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 48751

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.1172		mg/Kg		118	70 - 130	13	35
Toluene	<0.00201	U	0.0990	0.1059		mg/Kg		107	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.0990	0.1083		mg/Kg		109	70 - 130	0	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.2330		mg/Kg		118	70 - 130	2	35
o-Xylene	<0.00201	U	0.0990	0.1132		mg/Kg		114	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-48753/5-A  
Matrix: Solid  
Analysis Batch: 48914

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 48753

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 15:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 15:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 15:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/16/23 13:18	03/20/23 15:01	1

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### QC Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

#### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-48753/5-A  
 Matrix: Solid  
 Analysis Batch: 48914

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 48753

Analyte	MB MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:18	03/20/23 15:01			1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/16/23 13:18	03/20/23 15:01			1

Surrogate	MB MB		Limits	Prepared		Analyzed		Dil Fac
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	97		70 - 130	03/16/23 13:18		03/20/23 15:01		1
1,4-Difluorobenzene (Surr)	114		70 - 130	03/16/23 13:18		03/20/23 15:01		1

Lab Sample ID: LCS 880-48753/1-A  
 Matrix: Solid  
 Analysis Batch: 48914

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 48753

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	
Benzene	0.100	0.1022		mg/Kg		102	70 - 130	
Toluene	0.100	0.1124		mg/Kg		112	70 - 130	
Ethylbenzene	0.100	0.08141		mg/Kg		81	70 - 130	
m-Xylene & p-Xylene	0.200	0.1546		mg/Kg		77	70 - 130	
o-Xylene	0.100	0.07554		mg/Kg		76	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-48753/2-A  
 Matrix: Solid  
 Analysis Batch: 48914

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 48753

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec		RPD	
		Result	Qualifier				Limits	RPD	Limit	
Benzene	0.100	0.1080		mg/Kg		108	70 - 130	5	35	
Toluene	0.100	0.1171		mg/Kg		117	70 - 130	4	35	
Ethylbenzene	0.100	0.08792		mg/Kg		88	70 - 130	8	35	
m-Xylene & p-Xylene	0.200	0.1673		mg/Kg		84	70 - 130	8	35	
o-Xylene	0.100	0.08259		mg/Kg		83	70 - 130	9	35	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 890-4270-1 MS  
 Matrix: Solid  
 Analysis Batch: 48914

Client Sample ID: H-1  
 Prep Type: Total/NA  
 Prep Batch: 48753

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Benzene	<0.00199	U F1 F2	0.0998	0.05661	F1	mg/Kg		57	70 - 130	
Toluene	<0.00199	U F2	0.0998	0.07590		mg/Kg		76	70 - 130	
Ethylbenzene	<0.00199	U F1 F2	0.0998	0.04699	F1	mg/Kg		47	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.09247	F1	mg/Kg		46	70 - 130	
o-Xylene	<0.00199	U F1	0.0998	0.05214	F1	mg/Kg		52	70 - 130	

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### QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

#### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-4270-1 MS  
Matrix: Solid  
Analysis Batch: 48914

Client Sample ID: H-1  
Prep Type: Total/NA  
Prep Batch: 48753

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: 890-4270-1 MSD  
Matrix: Solid  
Analysis Batch: 48914

Client Sample ID: H-1  
Prep Type: Total/NA  
Prep Batch: 48753

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 F2	0.101	0.03334	F1 F2	mg/Kg		33	70 - 130	52	35
Toluene	<0.00199	U F2	0.101	0.1111	F2	mg/Kg		110	70 - 130	38	35
Ethylbenzene	<0.00199	U F1 F2	0.101	0.03206	F1 F2	mg/Kg		32	70 - 130	38	35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.06589	F1	mg/Kg		33	70 - 130	34	35
o-Xylene	<0.00199	U F1	0.101	0.04181	F1	mg/Kg		41	70 - 130	22	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	136	S1+	70 - 130

Lab Sample ID: MB 880-48754/5-A  
Matrix: Solid  
Analysis Batch: 48949

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 48754

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:22	03/20/23 22:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:22	03/20/23 22:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:22	03/20/23 22:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/16/23 13:22	03/20/23 22:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/16/23 13:22	03/20/23 22:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/16/23 13:22	03/20/23 22:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	03/16/23 13:22	03/20/23 22:46	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130	03/16/23 13:22	03/20/23 22:46	1

Lab Sample ID: LCS 880-48754/1-A  
Matrix: Solid  
Analysis Batch: 48949

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 48754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09926		mg/Kg		99	70 - 130
Toluene	0.100	0.1001		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1052		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2201		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1089		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-48754/1-A

Matrix: Solid

Analysis Batch: 48949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48754

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-48754/2-A

Matrix: Solid

Analysis Batch: 48949

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48754

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Benzene	0.100	0.07941		mg/Kg		79	70 - 130	22	35	
Toluene	0.100	0.08604		mg/Kg		86	70 - 130	15	35	
Ethylbenzene	0.100	0.09577		mg/Kg		96	70 - 130	9	35	
m-Xylene & p-Xylene	0.200	0.2087		mg/Kg		104	70 - 130	5	35	
o-Xylene	0.100	0.1046		mg/Kg		105	70 - 130	4	35	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-4270-21 MS

Matrix: Solid

Analysis Batch: 48949

Client Sample ID: AH-4 (0-1')

Prep Type: Total/NA

Prep Batch: 48754

Analyte	Sample		Spike Added	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Benzene	<0.00198	U F1 F2	0.0998	0.1039		mg/Kg		104	70 - 130	
Toluene	<0.00198	U F1	0.0998	0.08965		mg/Kg		90	70 - 130	
Ethylbenzene	<0.00198	U F1	0.0998	0.08062		mg/Kg		81	70 - 130	
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.1630		mg/Kg		82	70 - 130	
o-Xylene	<0.00198	U F1	0.0998	0.07974		mg/Kg		80	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 890-4270-21 MSD

Matrix: Solid

Analysis Batch: 48949

Client Sample ID: AH-4 (0-1')

Prep Type: Total/NA

Prep Batch: 48754

Analyte	Sample		Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Benzene	<0.00198	U F1 F2	0.101	0.06395	F1 F2	mg/Kg		63	70 - 130	48	35	
Toluene	<0.00198	U F1	0.101	0.06970	F1	mg/Kg		69	70 - 130	25	35	
Ethylbenzene	<0.00198	U F1	0.101	0.06457	F1	mg/Kg		64	70 - 130	22	35	
m-Xylene & p-Xylene	<0.00396	U F1	0.202	0.1305	F1	mg/Kg		65	70 - 130	22	35	
o-Xylene	<0.00198	U F1	0.101	0.06461	F1	mg/Kg		64	70 - 130	21	35	

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

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### QC Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

#### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-48951/5-A  
 Matrix: Solid  
 Analysis Batch: 48949

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 48951

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/20/23 08:52	03/20/23 12:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/20/23 08:52	03/20/23 12:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/20/23 08:52	03/20/23 12:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/20/23 08:52	03/20/23 12:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/20/23 08:52	03/20/23 12:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/20/23 08:52	03/20/23 12:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	03/20/23 08:52	03/20/23 12:12	1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/20/23 08:52	03/20/23 12:12	1

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-48571/1-A  
 Matrix: Solid  
 Analysis Batch: 48564

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 48571

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 08:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 08:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 08:40	03/14/23 08:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130	03/14/23 08:40	03/14/23 08:46	1
o-Terphenyl	135	S1+	70 - 130	03/14/23 08:40	03/14/23 08:46	1

Lab Sample ID: LCS 880-48571/2-A  
 Matrix: Solid  
 Analysis Batch: 48564

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 48571

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1085		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1066		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-48571/3-A  
 Matrix: Solid  
 Analysis Batch: 48564

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 48571

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	906.2		mg/Kg		91	70 - 130	18	20

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### QC Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCSD 880-48571/3-A**  
**Matrix: Solid**  
**Analysis Batch: 48564**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 48571**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	961.6		mg/Kg		96	70 - 130	10	20
		<b>LCSD</b>	<b>LCSD</b>						
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
1-Chlorooctane	94		70 - 130						
o-Terphenyl	101		70 - 130						

**Lab Sample ID: 890-4270-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 48564**

**Client Sample ID: H-1**  
**Prep Type: Total/NA**  
**Prep Batch: 48571**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	811.5		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	826.4		mg/Kg		83	70 - 130		
		<b>MS</b>	<b>MS</b>								
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
1-Chlorooctane	87		70 - 130								
o-Terphenyl	84		70 - 130								

**Lab Sample ID: 890-4270-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 48564**

**Client Sample ID: H-1**  
**Prep Type: Total/NA**  
**Prep Batch: 48571**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	806.9		mg/Kg		78	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	840.7		mg/Kg		84	70 - 130	2	20
		<b>MSD</b>	<b>MSD</b>								
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	85		70 - 130								

**Lab Sample ID: MB 880-48572/1-A**  
**Matrix: Solid**  
**Analysis Batch: 48566**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 48572**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/14/23 08:45	03/14/23 08:46	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/14/23 08:45	03/14/23 08:46	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/14/23 08:45	03/14/23 08:46	1	
		<b>MB</b>	<b>MB</b>							
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>				
1-Chlorooctane	130		70 - 130	03/14/23 08:45	03/14/23 08:46	1				
o-Terphenyl	148	S1+	70 - 130	03/14/23 08:45	03/14/23 08:46	1				

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### QC Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCS 880-48572/2-A**  
**Matrix: Solid**  
**Analysis Batch: 48566**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 48572**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1114		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	945.5		mg/Kg		95	70 - 130
		<b>LCS</b>	<b>LCS</b>				
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			
1-Chlorooctane		99		70 - 130			
o-Terphenyl		106		70 - 130			

**Lab Sample ID: LCSD 880-48572/3-A**  
**Matrix: Solid**  
**Analysis Batch: 48566**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 48572**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1035		mg/Kg		104	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	777.3		mg/Kg		78	70 - 130	20	20
		<b>LCSD</b>	<b>LCSD</b>						
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
1-Chlorooctane		86		70 - 130					
o-Terphenyl		94		70 - 130					

**Lab Sample ID: 890-4270-21 MS**  
**Matrix: Solid**  
**Analysis Batch: 48566**

**Client Sample ID: AH-4 (0-1')**  
**Prep Type: Total/NA**  
**Prep Batch: 48572**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	891.5		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	936.4		mg/Kg		92	70 - 130
		<b>MS</b>	<b>MS</b>						
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
1-Chlorooctane		96		70 - 130					
o-Terphenyl		97		70 - 130					

**Lab Sample ID: 890-4270-21 MSD**  
**Matrix: Solid**  
**Analysis Batch: 48566**

**Client Sample ID: AH-4 (0-1')**  
**Prep Type: Total/NA**  
**Prep Batch: 48572**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	979.8		mg/Kg		97	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1138		mg/Kg		112	70 - 130	19	20
		<b>MSD</b>	<b>MSD</b>								
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>							
1-Chlorooctane		112		70 - 130							

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### QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-4270-21 MSD  
Matrix: Solid  
Analysis Batch: 48566

Client Sample ID: AH-4 (0-1')  
Prep Type: Total/NA  
Prep Batch: 48572

Surrogate	%Recovery	MSD Qualifier	MSD Limits
<i>o</i> -Terphenyl	118		70 - 130

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48589/1-A  
Matrix: Solid  
Analysis Batch: 49023

Client Sample ID: Method Blank  
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/18/23 12:55	1

Lab Sample ID: LCS 880-48589/2-A  
Matrix: Solid  
Analysis Batch: 49023

Client Sample ID: Lab Control Sample  
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	267.3		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-48589/3-A  
Matrix: Solid  
Analysis Batch: 49023

Client Sample ID: Lab Control Sample Dup  
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	250	267.3		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 890-4268-A-19-B MS  
Matrix: Solid  
Analysis Batch: 49023

Client Sample ID: Matrix Spike  
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0		251	303.8		mg/Kg		109	90 - 110

Lab Sample ID: 890-4268-A-19-C MSD  
Matrix: Solid  
Analysis Batch: 49023

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	30.0		251	301.7		mg/Kg		108	90 - 110	1	20

Lab Sample ID: MB 880-48591/1-A  
Matrix: Solid  
Analysis Batch: 49126

Client Sample ID: Method Blank  
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/20/23 01:26	1

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### QC Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

#### Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-48591/2-A  
 Matrix: Solid  
 Analysis Batch: 49126

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	268.8		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-48591/3-A  
 Matrix: Solid  
 Analysis Batch: 49126

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	268.7		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 890-4270-29 MS  
 Matrix: Solid  
 Analysis Batch: 49126

Client Sample ID: AH-6 (0-1')  
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2250		2520	4673		mg/Kg		96	90 - 110

Lab Sample ID: 890-4270-29 MSD  
 Matrix: Solid  
 Analysis Batch: 49126

Client Sample ID: AH-6 (0-1')  
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2250		2520	4686		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-48590/1-A  
 Matrix: Solid  
 Analysis Batch: 49127

Client Sample ID: Method Blank  
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/20/23 01:41	1

Lab Sample ID: LCS 880-48590/2-A  
 Matrix: Solid  
 Analysis Batch: 49127

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.1		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-48590/3-A  
 Matrix: Solid  
 Analysis Batch: 49127

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	263.8		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-4270-9 MS  
 Matrix: Solid  
 Analysis Batch: 49127

Client Sample ID: AH-1 (2-2.5')  
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	102		1250	1456		mg/Kg		108	90 - 110

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### QC Sample Results

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-4270-9 MSD  
 Matrix: Solid  
 Analysis Batch: 49127

Client Sample ID: AH-1 (2-2.5'  
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	102		1250	1458		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 890-4270-19 MS  
 Matrix: Solid  
 Analysis Batch: 49127

Client Sample ID: AH-3 (2-2.5'  
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	94.1		248	337.5		mg/Kg		98	90 - 110		

Lab Sample ID: 890-4270-19 MSD  
 Matrix: Solid  
 Analysis Batch: 49127

Client Sample ID: AH-3 (2-2.5'  
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	94.1		248	337.8		mg/Kg		98	90 - 110	0	20

Lab Sample ID: MB 880-49600/1-A  
 Matrix: Solid  
 Analysis Batch: 49677

Client Sample ID: Method Blank  
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/27/23 13:00	1

Lab Sample ID: LCS 880-49600/2-A  
 Matrix: Solid  
 Analysis Batch: 49677

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	267.8		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-49600/3-A  
 Matrix: Solid  
 Analysis Batch: 49677

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	268.1		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 890-4270-11 MS  
 Matrix: Solid  
 Analysis Batch: 49677

Client Sample ID: AH-1 (4-4.5'  
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	868		1260	2180		mg/Kg		105	90 - 110		

Lab Sample ID: 890-4270-11 MSD  
 Matrix: Solid  
 Analysis Batch: 49677

Client Sample ID: AH-1 (4-4.5'  
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	868		1260	2189		mg/Kg		105	90 - 110	0	20

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

## GC VOA

## Prep Batch: 48248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48248/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 48751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-31	AH-6 (2-2.5')	Total/NA	Solid	5035	
890-4270-32	AH-6 (3-3.5)	Total/NA	Solid	5035	
890-4270-33	AH-7 (0-1')	Total/NA	Solid	5035	
890-4270-34	AH-7 (1-1.5')	Total/NA	Solid	5035	
890-4270-35	AH-7 (2-2.5')	Total/NA	Solid	5035	
890-4270-36	AH-7 (3-3.5')	Total/NA	Solid	5035	
890-4270-37	AH-7 (4-4.5')	Total/NA	Solid	5035	
MB 880-48751/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48751/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 880-48751/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4259-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-4259-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Prep Batch: 48753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-1	H-1	Total/NA	Solid	5035	
890-4270-2	H-2	Total/NA	Solid	5035	
890-4270-3	H-3	Total/NA	Solid	5035	
890-4270-4	H-4	Total/NA	Solid	5035	
890-4270-5	H-5	Total/NA	Solid	5035	
890-4270-6	H-6	Total/NA	Solid	5035	
890-4270-7	AH-1 (0-1')	Total/NA	Solid	5035	
890-4270-8	AH-1 (1-1.5')	Total/NA	Solid	5035	
890-4270-9	AH-1 (2-2.5')	Total/NA	Solid	5035	
890-4270-10	AH-1 (3-3.5')	Total/NA	Solid	5035	
890-4270-11	AH-1 (4-4.5')	Total/NA	Solid	5035	
890-4270-12	AH-2 (0-1')	Total/NA	Solid	5035	
890-4270-13	AH-2 (1-1.5')	Total/NA	Solid	5035	
890-4270-14	AH-2 (2-2.5')	Total/NA	Solid	5035	
890-4270-15	AH-2 (3-3.5')	Total/NA	Solid	5035	
890-4270-16	AH-2 (4-4.5')	Total/NA	Solid	5035	
890-4270-17	AH-3 (0-1')	Total/NA	Solid	5035	
890-4270-18	AH-3 (1-1.5')	Total/NA	Solid	5035	
890-4270-19	AH-3 (2-2.5')	Total/NA	Solid	5035	
890-4270-20	AH-3 (3-3.5')	Total/NA	Solid	5035	
MB 880-48753/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48753/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 880-48753/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4270-1 MS	H-1	Total/NA	Solid	5035	
890-4270-1 MSD	H-1	Total/NA	Solid	5035	

## Prep Batch: 48754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-21	AH-4 (0-1')	Total/NA	Solid	5035	
890-4270-22	AH-4 (1-1.5')	Total/NA	Solid	5035	
890-4270-23	AH-4 (2-2.5')	Total/NA	Solid	5035	
890-4270-24	AH-4 (3-3.5')	Total/NA	Solid	5035	

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

## GC VOA (Continued)

## Prep Batch: 48754 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-25	AH-5 (0-1')	Total/NA	Solid	5035	
890-4270-26	AH-5 (1-1.5')	Total/NA	Solid	5035	
890-4270-27	AH-5 (2-2.5')	Total/NA	Solid	5035	
890-4270-28	AH-5 (3-3.5')	Total/NA	Solid	5035	
890-4270-29	AH-6 (0-1')	Total/NA	Solid	5035	
890-4270-30	AH-6 (1-1.5')	Total/NA	Solid	5035	
MB 880-48754/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48754/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48754/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4270-21 MS	AH-4 (0-1')	Total/NA	Solid	5035	
890-4270-21 MSD	AH-4 (0-1')	Total/NA	Solid	5035	

## Analysis Batch: 48914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-1	H-1	Total/NA	Solid	8021B	48753
890-4270-2	H-2	Total/NA	Solid	8021B	48753
890-4270-3	H-3	Total/NA	Solid	8021B	48753
890-4270-4	H-4	Total/NA	Solid	8021B	48753
890-4270-5	H-5	Total/NA	Solid	8021B	48753
890-4270-6	H-6	Total/NA	Solid	8021B	48753
890-4270-7	AH-1 (0-1')	Total/NA	Solid	8021B	48753
890-4270-8	AH-1 (1-1.5')	Total/NA	Solid	8021B	48753
890-4270-9	AH-1 (2-2.5')	Total/NA	Solid	8021B	48753
890-4270-10	AH-1 (3-3.5')	Total/NA	Solid	8021B	48753
890-4270-11	AH-1 (4-4.5')	Total/NA	Solid	8021B	48753
890-4270-12	AH-2 (0-1')	Total/NA	Solid	8021B	48753
890-4270-13	AH-2 (1-1.5')	Total/NA	Solid	8021B	48753
890-4270-14	AH-2 (2-2.5')	Total/NA	Solid	8021B	48753
890-4270-15	AH-2 (3-3.5')	Total/NA	Solid	8021B	48753
890-4270-16	AH-2 (4-4.5')	Total/NA	Solid	8021B	48753
890-4270-17	AH-3 (0-1')	Total/NA	Solid	8021B	48753
890-4270-18	AH-3 (1-1.5')	Total/NA	Solid	8021B	48753
890-4270-19	AH-3 (2-2.5')	Total/NA	Solid	8021B	48753
890-4270-20	AH-3 (3-3.5')	Total/NA	Solid	8021B	48753
MB 880-48248/5-A	Method Blank	Total/NA	Solid	8021B	48248
MB 880-48753/5-A	Method Blank	Total/NA	Solid	8021B	48753
LCS 880-48753/1-A	Lab Control Sample	Total/NA	Solid	8021B	48753
LCSD 880-48753/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48753
890-4270-1 MS	H-1	Total/NA	Solid	8021B	48753
890-4270-1 MSD	H-1	Total/NA	Solid	8021B	48753

## Analysis Batch: 48915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-31	AH-6 (2-2.5')	Total/NA	Solid	8021B	48751
890-4270-32	AH-6 (3-3.5')	Total/NA	Solid	8021B	48751
890-4270-33	AH-7 (0-1')	Total/NA	Solid	8021B	48751
890-4270-34	AH-7 (1-1.5')	Total/NA	Solid	8021B	48751
890-4270-35	AH-7 (2-2.5')	Total/NA	Solid	8021B	48751
890-4270-36	AH-7 (3-3.5')	Total/NA	Solid	8021B	48751
890-4270-37	AH-7 (4-4.5')	Total/NA	Solid	8021B	48751
MB 880-48751/5-A	Method Blank	Total/NA	Solid	8021B	48751

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### QC Association Summary

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

#### GC VOA (Continued)

##### Analysis Batch: 48915 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-48751/1-A	Lab Control Sample	Total/NA	Solid	8021B	48751
LCSD 880-48751/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48751
890-4259-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	48751
890-4259-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48751

##### Analysis Batch: 48949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-21	AH-4 (0-1')	Total/NA	Solid	8021B	48754
890-4270-22	AH-4 (1-1.5')	Total/NA	Solid	8021B	48754
890-4270-23	AH-4 (2-2.5')	Total/NA	Solid	8021B	48754
890-4270-24	AH-4 (3-3.5')	Total/NA	Solid	8021B	48754
890-4270-25	AH-5 (0-1')	Total/NA	Solid	8021B	48754
890-4270-26	AH-5 (1-1.5')	Total/NA	Solid	8021B	48754
890-4270-27	AH-5 (2-2.5')	Total/NA	Solid	8021B	48754
890-4270-28	AH-5 (3-3.5')	Total/NA	Solid	8021B	48754
890-4270-29	AH-6 (0-1')	Total/NA	Solid	8021B	48754
890-4270-30	AH-6 (1-1.5')	Total/NA	Solid	8021B	48754
MB 880-48754/5-A	Method Blank	Total/NA	Solid	8021B	48754
MB 880-48951/5-A	Method Blank	Total/NA	Solid	8021B	48951
LCS 880-48754/1-A	Lab Control Sample	Total/NA	Solid	8021B	48754
LCSD 880-48754/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48754
890-4270-21 MS	AH-4 (0-1')	Total/NA	Solid	8021B	48754
890-4270-21 MSD	AH-4 (0-1')	Total/NA	Solid	8021B	48754

##### Prep Batch: 48951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48951/5-A	Method Blank	Total/NA	Solid	5035	

##### Analysis Batch: 49092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-1	H-1	Total/NA	Solid	Total BTEX	
890-4270-2	H-2	Total/NA	Solid	Total BTEX	
890-4270-3	H-3	Total/NA	Solid	Total BTEX	
890-4270-4	H-4	Total/NA	Solid	Total BTEX	
890-4270-5	H-5	Total/NA	Solid	Total BTEX	
890-4270-6	H-6	Total/NA	Solid	Total BTEX	
890-4270-7	AH-1 (0-1')	Total/NA	Solid	Total BTEX	
890-4270-8	AH-1 (1-1.5')	Total/NA	Solid	Total BTEX	
890-4270-9	AH-1 (2-2.5')	Total/NA	Solid	Total BTEX	
890-4270-10	AH-1 (3-3.5')	Total/NA	Solid	Total BTEX	
890-4270-11	AH-1 (4-4.5')	Total/NA	Solid	Total BTEX	
890-4270-12	AH-2 (0-1')	Total/NA	Solid	Total BTEX	
890-4270-13	AH-2 (1-1.5')	Total/NA	Solid	Total BTEX	
890-4270-14	AH-2 (2-2.5')	Total/NA	Solid	Total BTEX	
890-4270-15	AH-2 (3-3.5')	Total/NA	Solid	Total BTEX	
890-4270-16	AH-2 (4-4.5')	Total/NA	Solid	Total BTEX	
890-4270-17	AH-3 (0-1')	Total/NA	Solid	Total BTEX	
890-4270-18	AH-3 (1-1.5')	Total/NA	Solid	Total BTEX	
890-4270-19	AH-3 (2-2.5')	Total/NA	Solid	Total BTEX	
890-4270-20	AH-3 (3-3.5')	Total/NA	Solid	Total BTEX	
890-4270-21	AH-4 (0-1')	Total/NA	Solid	Total BTEX	

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

## GC VOA (Continued)

## Analysis Batch: 49092 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-22	AH-4 (1-1.5')	Total/NA	Solid	Total BTEX	
890-4270-23	AH-4 (2-2.5')	Total/NA	Solid	Total BTEX	
890-4270-24	AH-4 (3-3.5')	Total/NA	Solid	Total BTEX	
890-4270-25	AH-5 (0-1')	Total/NA	Solid	Total BTEX	
890-4270-26	AH-5 (1-1.5')	Total/NA	Solid	Total BTEX	
890-4270-27	AH-5 (2-2.5')	Total/NA	Solid	Total BTEX	
890-4270-28	AH-5 (3-3.5')	Total/NA	Solid	Total BTEX	
890-4270-29	AH-6 (0-1')	Total/NA	Solid	Total BTEX	
890-4270-30	AH-6 (1-1.5')	Total/NA	Solid	Total BTEX	
890-4270-31	AH-6 (2-2.5')	Total/NA	Solid	Total BTEX	
890-4270-32	AH-6 (3-3.5')	Total/NA	Solid	Total BTEX	
890-4270-33	AH-7 (0-1')	Total/NA	Solid	Total BTEX	
890-4270-34	AH-7 (1-1.5')	Total/NA	Solid	Total BTEX	
890-4270-35	AH-7 (2-2.5')	Total/NA	Solid	Total BTEX	
890-4270-36	AH-7 (3-3.5')	Total/NA	Solid	Total BTEX	
890-4270-37	AH-7 (4-4.5')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 48564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-1	H-1	Total/NA	Solid	8015B NM	48571
890-4270-2	H-2	Total/NA	Solid	8015B NM	48571
890-4270-3	H-3	Total/NA	Solid	8015B NM	48571
890-4270-4	H-4	Total/NA	Solid	8015B NM	48571
890-4270-5	H-5	Total/NA	Solid	8015B NM	48571
890-4270-6	H-6	Total/NA	Solid	8015B NM	48571
890-4270-7	AH-1 (0-1')	Total/NA	Solid	8015B NM	48571
890-4270-8	AH-1 (1-1.5')	Total/NA	Solid	8015B NM	48571
890-4270-9	AH-1 (2-2.5')	Total/NA	Solid	8015B NM	48571
890-4270-10	AH-1 (3-3.5')	Total/NA	Solid	8015B NM	48571
890-4270-11	AH-1 (4-4.5')	Total/NA	Solid	8015B NM	48571
890-4270-12	AH-2 (0-1')	Total/NA	Solid	8015B NM	48571
890-4270-13	AH-2 (1-1.5')	Total/NA	Solid	8015B NM	48571
890-4270-14	AH-2 (2-2.5')	Total/NA	Solid	8015B NM	48571
890-4270-15	AH-2 (3-3.5')	Total/NA	Solid	8015B NM	48571
890-4270-16	AH-2 (4-4.5')	Total/NA	Solid	8015B NM	48571
890-4270-17	AH-3 (0-1')	Total/NA	Solid	8015B NM	48571
890-4270-18	AH-3 (1-1.5')	Total/NA	Solid	8015B NM	48571
890-4270-19	AH-3 (2-2.5')	Total/NA	Solid	8015B NM	48571
890-4270-20	AH-3 (3-3.5')	Total/NA	Solid	8015B NM	48571
MB 880-48571/1-A	Method Blank	Total/NA	Solid	8015B NM	48571
LCS 880-48571/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48571
LCSD 880-48571/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48571
890-4270-1 MS	H-1	Total/NA	Solid	8015B NM	48571
890-4270-1 MSD	H-1	Total/NA	Solid	8015B NM	48571

## Analysis Batch: 48566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-21	AH-4 (0-1')	Total/NA	Solid	8015B NM	48572
890-4270-22	AH-4 (1-1.5')	Total/NA	Solid	8015B NM	48572

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

## GC Semi VOA (Continued)

## Analysis Batch: 48566 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-23	AH-4 (2-2.5')	Total/NA	Solid	8015B NM	48572
890-4270-24	AH-4 (3-3.5')	Total/NA	Solid	8015B NM	48572
890-4270-25	AH-5 (0-1')	Total/NA	Solid	8015B NM	48572
890-4270-26	AH-5 (1-1.5')	Total/NA	Solid	8015B NM	48572
890-4270-27	AH-5 (2-2.5')	Total/NA	Solid	8015B NM	48572
890-4270-28	AH-5 (3-3.5')	Total/NA	Solid	8015B NM	48572
890-4270-29	AH-6 (0-1')	Total/NA	Solid	8015B NM	48572
890-4270-30	AH-6 (1-1.5')	Total/NA	Solid	8015B NM	48572
890-4270-31	AH-6 (2-2.5')	Total/NA	Solid	8015B NM	48572
890-4270-32	AH-6 (3-3.5)	Total/NA	Solid	8015B NM	48572
890-4270-33	AH-7 (0-1')	Total/NA	Solid	8015B NM	48572
890-4270-34	AH-7 (1-1.5')	Total/NA	Solid	8015B NM	48572
890-4270-35	AH-7 (2-2.5')	Total/NA	Solid	8015B NM	48572
890-4270-36	AH-7 (3-3.5')	Total/NA	Solid	8015B NM	48572
890-4270-37	AH-7 (4-4.5')	Total/NA	Solid	8015B NM	48572
MB 880-48572/1-A	Method Blank	Total/NA	Solid	8015B NM	48572
LCS 880-48572/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48572
LCSD 880-48572/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48572
890-4270-21 MS	AH-4 (0-1')	Total/NA	Solid	8015B NM	48572
890-4270-21 MSD	AH-4 (0-1')	Total/NA	Solid	8015B NM	48572

## Prep Batch: 48571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-1	H-1	Total/NA	Solid	8015NM Prep	
890-4270-2	H-2	Total/NA	Solid	8015NM Prep	
890-4270-3	H-3	Total/NA	Solid	8015NM Prep	
890-4270-4	H-4	Total/NA	Solid	8015NM Prep	
890-4270-5	H-5	Total/NA	Solid	8015NM Prep	
890-4270-6	H-6	Total/NA	Solid	8015NM Prep	
890-4270-7	AH-1 (0-1')	Total/NA	Solid	8015NM Prep	
890-4270-8	AH-1 (1-1.5')	Total/NA	Solid	8015NM Prep	
890-4270-9	AH-1 (2-2.5')	Total/NA	Solid	8015NM Prep	
890-4270-10	AH-1 (3-3.5')	Total/NA	Solid	8015NM Prep	
890-4270-11	AH-1 (4-4.5')	Total/NA	Solid	8015NM Prep	
890-4270-12	AH-2 (0-1')	Total/NA	Solid	8015NM Prep	
890-4270-13	AH-2 (1-1.5')	Total/NA	Solid	8015NM Prep	
890-4270-14	AH-2 (2-2.5')	Total/NA	Solid	8015NM Prep	
890-4270-15	AH-2 (3-3.5')	Total/NA	Solid	8015NM Prep	
890-4270-16	AH-2 (4-4.5')	Total/NA	Solid	8015NM Prep	
890-4270-17	AH-3 (0-1')	Total/NA	Solid	8015NM Prep	
890-4270-18	AH-3 (1-1.5')	Total/NA	Solid	8015NM Prep	
890-4270-19	AH-3 (2-2.5')	Total/NA	Solid	8015NM Prep	
890-4270-20	AH-3 (3-3.5')	Total/NA	Solid	8015NM Prep	
MB 880-48571/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48571/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48571/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4270-1 MS	H-1	Total/NA	Solid	8015NM Prep	
890-4270-1 MSD	H-1	Total/NA	Solid	8015NM Prep	

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### QC Association Summary

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

#### GC Semi VOA

##### Prep Batch: 48572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-21	AH-4 (0-1')	Total/NA	Solid	8015NM Prep	
890-4270-22	AH-4 (1-1.5')	Total/NA	Solid	8015NM Prep	
890-4270-23	AH-4 (2-2.5')	Total/NA	Solid	8015NM Prep	
890-4270-24	AH-4 (3-3.5')	Total/NA	Solid	8015NM Prep	
890-4270-25	AH-5 (0-1')	Total/NA	Solid	8015NM Prep	
890-4270-26	AH-5 (1-1.5')	Total/NA	Solid	8015NM Prep	
890-4270-27	AH-5 (2-2.5')	Total/NA	Solid	8015NM Prep	
890-4270-28	AH-5 (3-3.5')	Total/NA	Solid	8015NM Prep	
890-4270-29	AH-6 (0-1')	Total/NA	Solid	8015NM Prep	
890-4270-30	AH-6 (1-1.5')	Total/NA	Solid	8015NM Prep	
890-4270-31	AH-6 (2-2.5')	Total/NA	Solid	8015NM Prep	
890-4270-32	AH-6 (3-3.5)	Total/NA	Solid	8015NM Prep	
890-4270-33	AH-7 (0-1')	Total/NA	Solid	8015NM Prep	
890-4270-34	AH-7 (1-1.5')	Total/NA	Solid	8015NM Prep	
890-4270-35	AH-7 (2-2.5')	Total/NA	Solid	8015NM Prep	
890-4270-36	AH-7 (3-3.5')	Total/NA	Solid	8015NM Prep	
890-4270-37	AH-7 (4-4.5')	Total/NA	Solid	8015NM Prep	
MB 880-48572/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48572/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48572/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4270-21 MS	AH-4 (0-1')	Total/NA	Solid	8015NM Prep	
890-4270-21 MSD	AH-4 (0-1')	Total/NA	Solid	8015NM Prep	

##### Analysis Batch: 49094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-1	H-1	Total/NA	Solid	8015 NM	
890-4270-2	H-2	Total/NA	Solid	8015 NM	
890-4270-3	H-3	Total/NA	Solid	8015 NM	
890-4270-4	H-4	Total/NA	Solid	8015 NM	
890-4270-5	H-5	Total/NA	Solid	8015 NM	
890-4270-6	H-6	Total/NA	Solid	8015 NM	
890-4270-7	AH-1 (0-1')	Total/NA	Solid	8015 NM	
890-4270-8	AH-1 (1-1.5')	Total/NA	Solid	8015 NM	
890-4270-9	AH-1 (2-2.5'	Total/NA	Solid	8015 NM	
890-4270-10	AH-1 (3-3.5')	Total/NA	Solid	8015 NM	
890-4270-11	AH-1 (4-4.5')	Total/NA	Solid	8015 NM	
890-4270-12	AH-2 (0-1')	Total/NA	Solid	8015 NM	
890-4270-13	AH-2 (1-1.5')	Total/NA	Solid	8015 NM	
890-4270-14	AH-2 (2-2.5')	Total/NA	Solid	8015 NM	
890-4270-15	AH-2 (3-3.5')	Total/NA	Solid	8015 NM	
890-4270-16	AH-2 (4-4.5')	Total/NA	Solid	8015 NM	
890-4270-17	AH-3 (0-1')	Total/NA	Solid	8015 NM	
890-4270-18	AH-3 (1-1.5')	Total/NA	Solid	8015 NM	
890-4270-19	AH-3 (2-2.5'	Total/NA	Solid	8015 NM	
890-4270-20	AH-3 (3-3.5')	Total/NA	Solid	8015 NM	
890-4270-21	AH-4 (0-1')	Total/NA	Solid	8015 NM	
890-4270-22	AH-4 (1-1.5')	Total/NA	Solid	8015 NM	
890-4270-23	AH-4 (2-2.5')	Total/NA	Solid	8015 NM	
890-4270-24	AH-4 (3-3.5')	Total/NA	Solid	8015 NM	
890-4270-25	AH-5 (0-1')	Total/NA	Solid	8015 NM	
890-4270-26	AH-5 (1-1.5')	Total/NA	Solid	8015 NM	

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

## GC Semi VOA (Continued)

## Analysis Batch: 49094 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-27	AH-5 (2-2.5')	Total/NA	Solid	8015 NM	
890-4270-28	AH-5 (3-3.5')	Total/NA	Solid	8015 NM	
890-4270-29	AH-6 (0-1')	Total/NA	Solid	8015 NM	
890-4270-30	AH-6 (1-1.5')	Total/NA	Solid	8015 NM	
890-4270-31	AH-6 (2-2.5')	Total/NA	Solid	8015 NM	
890-4270-32	AH-6 (3-3.5')	Total/NA	Solid	8015 NM	
890-4270-33	AH-7 (0-1')	Total/NA	Solid	8015 NM	
890-4270-34	AH-7 (1-1.5')	Total/NA	Solid	8015 NM	
890-4270-35	AH-7 (2-2.5')	Total/NA	Solid	8015 NM	
890-4270-36	AH-7 (3-3.5')	Total/NA	Solid	8015 NM	
890-4270-37	AH-7 (4-4.5')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 48589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-1	H-1	Soluble	Solid	DI Leach	
890-4270-2	H-2	Soluble	Solid	DI Leach	
890-4270-3	H-3	Soluble	Solid	DI Leach	
890-4270-4	H-4	Soluble	Solid	DI Leach	
890-4270-5	H-5	Soluble	Solid	DI Leach	
890-4270-6	H-6	Soluble	Solid	DI Leach	
890-4270-7	AH-1 (0-1')	Soluble	Solid	DI Leach	
890-4270-8	AH-1 (1-1.5')	Soluble	Solid	DI Leach	
MB 880-48589/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48589/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCS 880-48589/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4268-A-19-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4268-A-19-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Leach Batch: 48590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-9	AH-1 (2-2.5')	Soluble	Solid	DI Leach	
890-4270-10	AH-1 (3-3.5')	Soluble	Solid	DI Leach	
890-4270-11	AH-1 (4-4.5')	Soluble	Solid	DI Leach	
890-4270-12	AH-2 (0-1')	Soluble	Solid	DI Leach	
890-4270-13	AH-2 (1-1.5')	Soluble	Solid	DI Leach	
890-4270-14	AH-2 (2-2.5')	Soluble	Solid	DI Leach	
890-4270-15	AH-2 (3-3.5')	Soluble	Solid	DI Leach	
890-4270-16	AH-2 (4-4.5')	Soluble	Solid	DI Leach	
890-4270-17	AH-3 (0-1')	Soluble	Solid	DI Leach	
890-4270-18	AH-3 (1-1.5')	Soluble	Solid	DI Leach	
890-4270-19	AH-3 (2-2.5')	Soluble	Solid	DI Leach	
890-4270-20	AH-3 (3-3.5')	Soluble	Solid	DI Leach	
890-4270-21	AH-4 (0-1')	Soluble	Solid	DI Leach	
890-4270-22	AH-4 (1-1.5')	Soluble	Solid	DI Leach	
890-4270-23	AH-4 (2-2.5')	Soluble	Solid	DI Leach	
890-4270-24	AH-4 (3-3.5')	Soluble	Solid	DI Leach	
890-4270-25	AH-5 (0-1')	Soluble	Solid	DI Leach	
890-4270-26	AH-5 (1-1.5')	Soluble	Solid	DI Leach	
890-4270-27	AH-5 (2-2.5')	Soluble	Solid	DI Leach	

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

## HPLC/IC (Continued)

## Leach Batch: 48590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-28	AH-5 (3-3.5')	Soluble	Solid	DI Leach	
MB 880-48590/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48590/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48590/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4270-9 MS	AH-1 (2-2.5')	Soluble	Solid	DI Leach	
890-4270-9 MSD	AH-1 (2-2.5')	Soluble	Solid	DI Leach	
890-4270-19 MS	AH-3 (2-2.5')	Soluble	Solid	DI Leach	
890-4270-19 MSD	AH-3 (2-2.5')	Soluble	Solid	DI Leach	

## Leach Batch: 48591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-29	AH-6 (0-1')	Soluble	Solid	DI Leach	
890-4270-31	AH-6 (2-2.5')	Soluble	Solid	DI Leach	
890-4270-32	AH-6 (3-3.5)	Soluble	Solid	DI Leach	
890-4270-33	AH-7 (0-1')	Soluble	Solid	DI Leach	
890-4270-34	AH-7 (1-1.5')	Soluble	Solid	DI Leach	
890-4270-35	AH-7 (2-2.5')	Soluble	Solid	DI Leach	
890-4270-36	AH-7 (3-3.5')	Soluble	Solid	DI Leach	
MB 880-48591/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48591/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48591/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4270-29 MS	AH-6 (0-1')	Soluble	Solid	DI Leach	
890-4270-29 MSD	AH-6 (0-1')	Soluble	Solid	DI Leach	

## Analysis Batch: 49023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-1	H-1	Soluble	Solid	300.0	48589
890-4270-2	H-2	Soluble	Solid	300.0	48589
890-4270-3	H-3	Soluble	Solid	300.0	48589
890-4270-4	H-4	Soluble	Solid	300.0	48589
890-4270-5	H-5	Soluble	Solid	300.0	48589
890-4270-6	H-6	Soluble	Solid	300.0	48589
890-4270-7	AH-1 (0-1')	Soluble	Solid	300.0	48589
890-4270-8	AH-1 (1-1.5')	Soluble	Solid	300.0	48589
MB 880-48589/1-A	Method Blank	Soluble	Solid	300.0	48589
LCS 880-48589/2-A	Lab Control Sample	Soluble	Solid	300.0	48589
LCSD 880-48589/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48589
890-4268-A-19-B MS	Matrix Spike	Soluble	Solid	300.0	48589
890-4268-A-19-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48589

## Analysis Batch: 49126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-29	AH-6 (0-1')	Soluble	Solid	300.0	48591
890-4270-31	AH-6 (2-2.5')	Soluble	Solid	300.0	48591
890-4270-32	AH-6 (3-3.5)	Soluble	Solid	300.0	48591
890-4270-33	AH-7 (0-1')	Soluble	Solid	300.0	48591
890-4270-34	AH-7 (1-1.5')	Soluble	Solid	300.0	48591
890-4270-35	AH-7 (2-2.5')	Soluble	Solid	300.0	48591
890-4270-36	AH-7 (3-3.5')	Soluble	Solid	300.0	48591
MB 880-48591/1-A	Method Blank	Soluble	Solid	300.0	48591
LCS 880-48591/2-A	Lab Control Sample	Soluble	Solid	300.0	48591

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

## HPLC/IC (Continued)

## Analysis Batch: 49126 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-48591/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48591
890-4270-29 MS	AH-6 (0-1')	Soluble	Solid	300.0	48591
890-4270-29 MSD	AH-6 (0-1')	Soluble	Solid	300.0	48591

## Analysis Batch: 49127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-9	AH-1 (2-2.5')	Soluble	Solid	300.0	48590
890-4270-10	AH-1 (3-3.5')	Soluble	Solid	300.0	48590
890-4270-11	AH-1 (4-4.5')	Soluble	Solid	300.0	48590
890-4270-12	AH-2 (0-1')	Soluble	Solid	300.0	48590
890-4270-13	AH-2 (1-1.5')	Soluble	Solid	300.0	48590
890-4270-14	AH-2 (2-2.5')	Soluble	Solid	300.0	48590
890-4270-15	AH-2 (3-3.5')	Soluble	Solid	300.0	48590
890-4270-16	AH-2 (4-4.5')	Soluble	Solid	300.0	48590
890-4270-17	AH-3 (0-1')	Soluble	Solid	300.0	48590
890-4270-18	AH-3 (1-1.5')	Soluble	Solid	300.0	48590
890-4270-19	AH-3 (2-2.5')	Soluble	Solid	300.0	48590
890-4270-20	AH-3 (3-3.5')	Soluble	Solid	300.0	48590
890-4270-21	AH-4 (0-1')	Soluble	Solid	300.0	48590
890-4270-22	AH-4 (1-1.5')	Soluble	Solid	300.0	48590
890-4270-23	AH-4 (2-2.5')	Soluble	Solid	300.0	48590
890-4270-24	AH-4 (3-3.5')	Soluble	Solid	300.0	48590
890-4270-25	AH-5 (0-1')	Soluble	Solid	300.0	48590
890-4270-26	AH-5 (1-1.5')	Soluble	Solid	300.0	48590
890-4270-27	AH-5 (2-2.5')	Soluble	Solid	300.0	48590
890-4270-28	AH-5 (3-3.5')	Soluble	Solid	300.0	48590
MB 880-48590/1-A	Method Blank	Soluble	Solid	300.0	48590
LCS 880-48590/2-A	Lab Control Sample	Soluble	Solid	300.0	48590
LCSD 880-48590/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48590
890-4270-9 MS	AH-1 (2-2.5')	Soluble	Solid	300.0	48590
890-4270-9 MSD	AH-1 (2-2.5')	Soluble	Solid	300.0	48590
890-4270-19 MS	AH-3 (2-2.5')	Soluble	Solid	300.0	48590
890-4270-19 MSD	AH-3 (2-2.5')	Soluble	Solid	300.0	48590

## Leach Batch: 49600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-30	AH-6 (1-1.5')	Soluble	Solid	DI Leach	
890-4270-37	AH-7 (4-4.5')	Soluble	Solid	DI Leach	
MB 880-49600/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49600/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49600/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4270-11 MS	AH-1 (4-4.5')	Soluble	Solid	DI Leach	
890-4270-11 MSD	AH-1 (4-4.5')	Soluble	Solid	DI Leach	

## Analysis Batch: 49677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-30	AH-6 (1-1.5')	Soluble	Solid	300.0	49600
890-4270-37	AH-7 (4-4.5')	Soluble	Solid	300.0	49600
MB 880-49600/1-A	Method Blank	Soluble	Solid	300.0	49600
LCS 880-49600/2-A	Lab Control Sample	Soluble	Solid	300.0	49600
LCSD 880-49600/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49600

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### QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

#### HPLC/IC (Continued)

#### Analysis Batch: 49677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4270-11 MS	AH-1 (4-4.5')	Soluble	Solid	300.0	49600
890-4270-11 MSD	AH-1 (4-4.5')	Soluble	Solid	300.0	49600

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- 12
- 13
- 14

### Lab Chronicle

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: H-1**

**Lab Sample ID: 890-4270-1**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 15:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 11:26	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48589	03/14/23 11:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49023	03/18/23 14:37	SMC	EET MID

**Client Sample ID: H-2**

**Lab Sample ID: 890-4270-2**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 15:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 12:31	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	48589	03/14/23 11:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49023	03/18/23 14:52	SMC	EET MID

**Client Sample ID: H-3**

**Lab Sample ID: 890-4270-3**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 16:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 12:54	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48589	03/14/23 11:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49023	03/18/23 14:57	SMC	EET MID

**Client Sample ID: H-4**

**Lab Sample ID: 890-4270-4**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 16:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID

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### Lab Chronicle

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: H-4**

**Lab Sample ID: 890-4270-4**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 13:15	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48589	03/14/23 11:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49023	03/18/23 15:01	SMC	EET MID

**Client Sample ID: H-5**

**Lab Sample ID: 890-4270-5**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 16:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 13:37	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48589	03/14/23 11:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49023	03/18/23 15:06	SMC	EET MID

**Client Sample ID: H-6**

**Lab Sample ID: 890-4270-6**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 17:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 13:59	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48589	03/14/23 11:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49023	03/18/23 15:11	SMC	EET MID

**Client Sample ID: AH-1 (0-1')**

**Lab Sample ID: 890-4270-7**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 17:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 14:21	SM	EET MID

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### Lab Chronicle

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-1 (0-1')**

**Date Collected: 03/09/23 00:00**

**Date Received: 03/10/23 08:41**

**Lab Sample ID: 890-4270-7**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	48589	03/14/23 11:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49023	03/18/23 15:16	SMC	EET MID

**Client Sample ID: AH-1 (1-1.5')**

**Date Collected: 03/09/23 00:00**

**Date Received: 03/10/23 08:41**

**Lab Sample ID: 890-4270-8**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 17:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 14:43	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48589	03/14/23 11:16	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49023	03/18/23 15:21	SMC	EET MID

**Client Sample ID: AH-1 (2-2.5')**

**Date Collected: 03/09/23 00:00**

**Date Received: 03/10/23 08:41**

**Lab Sample ID: 890-4270-9**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 18:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 15:05	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49127	03/20/23 01:55	SMC	EET MID

**Client Sample ID: AH-1 (3-3.5')**

**Date Collected: 03/09/23 00:00**

**Date Received: 03/10/23 08:41**

**Lab Sample ID: 890-4270-10**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 18:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 15:27	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49127	03/20/23 02:09	SMC	EET MID

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### Lab Chronicle

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-1 (4-4.5')**

**Lab Sample ID: 890-4270-11**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 20:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 16:12	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49127	03/20/23 02:14	SMC	EET MID

**Client Sample ID: AH-2 (0-1')**

**Lab Sample ID: 890-4270-12**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 20:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 16:34	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49127	03/20/23 02:19	SMC	EET MID

**Client Sample ID: AH-2 (1-1.5')**

**Lab Sample ID: 890-4270-13**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 21:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 16:56	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49127	03/20/23 02:24	SMC	EET MID

**Client Sample ID: AH-2 (2-2.5')**

**Lab Sample ID: 890-4270-14**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 21:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID

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### Lab Chronicle

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-2 (2-2.5')**

**Lab Sample ID: 890-4270-14**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 17:17	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49127	03/20/23 02:39	SMC	EET MID

**Client Sample ID: AH-2 (3-3.5')**

**Lab Sample ID: 890-4270-15**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 21:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 17:39	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49127	03/20/23 02:43	SMC	EET MID

**Client Sample ID: AH-2 (4-4.5')**

**Lab Sample ID: 890-4270-16**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 22:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 18:01	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49127	03/20/23 02:48	SMC	EET MID

**Client Sample ID: AH-3 (0-1')**

**Lab Sample ID: 890-4270-17**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 22:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 18:24	SM	EET MID

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### Lab Chronicle

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-3 (0-1')**

**Lab Sample ID: 890-4270-17**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	49127	03/20/23 02:53	SMC	EET MID

**Client Sample ID: AH-3 (1-1.5')**

**Lab Sample ID: 890-4270-18**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 22:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 18:46	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49127	03/20/23 02:58	SMC	EET MID

**Client Sample ID: AH-3 (2-2.5')**

**Lab Sample ID: 890-4270-19**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 23:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 19:08	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49127	03/20/23 03:03	SMC	EET MID

**Client Sample ID: AH-3 (3-3.5')**

**Lab Sample ID: 890-4270-20**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48753	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48914	03/20/23 23:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48571	03/14/23 08:40	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48564	03/14/23 19:30	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49127	03/20/23 03:17	SMC	EET MID

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### Lab Chronicle

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-4 (0-1')**

**Lab Sample ID: 890-4270-21**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	48754	03/16/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48949	03/20/23 23:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	48572	03/14/23 08:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 11:26	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	49127	03/20/23 03:22	SMC	EET MID

**Client Sample ID: AH-4 (1-1.5')**

**Lab Sample ID: 890-4270-22**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48754	03/16/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48949	03/20/23 23:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48572	03/14/23 08:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 12:31	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49127	03/20/23 03:37	SMC	EET MID

**Client Sample ID: AH-4 (2-2.5')**

**Lab Sample ID: 890-4270-23**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48754	03/16/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48949	03/20/23 23:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48572	03/14/23 08:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 12:54	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49127	03/20/23 03:41	SMC	EET MID

**Client Sample ID: AH-4 (3-3.5')**

**Lab Sample ID: 890-4270-24**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48754	03/16/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48949	03/21/23 00:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID

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### Lab Chronicle

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-4 (3-3.5')**

**Lab Sample ID: 890-4270-24**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48572	03/14/23 08:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 13:15	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49127	03/20/23 03:46	SMC	EET MID

**Client Sample ID: AH-5 (0-1')**

**Lab Sample ID: 890-4270-25**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48754	03/16/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48949	03/21/23 00:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48572	03/14/23 08:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 13:37	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49127	03/20/23 03:51	SMC	EET MID

**Client Sample ID: AH-5 (1-1.5')**

**Lab Sample ID: 890-4270-26**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48754	03/16/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48949	03/21/23 00:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	48572	03/14/23 08:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 13:59	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49127	03/20/23 03:56	SMC	EET MID

**Client Sample ID: AH-5 (2-2.5')**

**Lab Sample ID: 890-4270-27**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	48754	03/16/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48949	03/21/23 01:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48572	03/14/23 08:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 14:21	SM	EET MID

Eurofins Carlsbad

### Lab Chronicle

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-5 (2-2.5')**

**Lab Sample ID: 890-4270-27**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49127	03/20/23 04:01	SMC	EET MID

**Client Sample ID: AH-5 (3-3.5')**

**Lab Sample ID: 890-4270-28**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	48754	03/16/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48949	03/21/23 01:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	48572	03/14/23 08:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 14:43	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48590	03/14/23 11:17	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49127	03/20/23 04:06	SMC	EET MID

**Client Sample ID: AH-6 (0-1')**

**Lab Sample ID: 890-4270-29**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48754	03/16/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48949	03/21/23 01:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	48572	03/14/23 08:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 15:05	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48591	03/14/23 11:19	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	49126	03/20/23 01:41	SMC	EET MID

**Client Sample ID: AH-6 (1-1.5')**

**Lab Sample ID: 890-4270-30**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	48754	03/16/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48949	03/21/23 02:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	48572	03/14/23 08:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 15:27	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	49600	03/27/23 10:32	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49677	03/27/23 13:29	SMC	EET MID

Eurofins Carlsbad

### Lab Chronicle

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-6 (2-2.5')**

**Lab Sample ID: 890-4270-31**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	48751	03/16/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48915	03/19/23 20:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48572	03/14/23 08:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 16:12	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	48591	03/14/23 11:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49126	03/20/23 02:01	SMC	EET MID

**Client Sample ID: AH-6 (3-3.5)**

**Lab Sample ID: 890-4270-32**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	48751	03/16/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48915	03/19/23 20:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48572	03/14/23 08:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 16:34	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	48591	03/14/23 11:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49126	03/20/23 02:06	SMC	EET MID

**Client Sample ID: AH-7 (0-1')**

**Lab Sample ID: 890-4270-33**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	48751	03/16/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48915	03/19/23 21:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48572	03/14/23 08:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 16:56	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48591	03/14/23 11:19	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	49126	03/20/23 02:11	SMC	EET MID

**Client Sample ID: AH-7 (1-1.5')**

**Lab Sample ID: 890-4270-34**

Date Collected: 03/09/23 00:00

Matrix: Solid

Date Received: 03/10/23 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48751	03/16/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48915	03/19/23 21:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID

Eurofins Carlsbad



### Lab Chronicle

Client: Tetra Tech, Inc.  
 Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
 SDG: Eddy County NM

**Client Sample ID: AH-7 (1-1.5')**

**Lab Sample ID: 890-4270-34**

**Date Collected: 03/09/23 00:00**

**Matrix: Solid**

**Date Received: 03/10/23 08:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48572	03/14/23 08:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 17:17	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48591	03/14/23 11:19	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49126	03/20/23 02:26	SMC	EET MID

**Client Sample ID: AH-7 (2-2.5')**

**Lab Sample ID: 890-4270-35**

**Date Collected: 03/09/23 00:00**

**Matrix: Solid**

**Date Received: 03/10/23 08:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48751	03/16/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48915	03/19/23 21:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	48572	03/14/23 08:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 17:39	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48591	03/14/23 11:19	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49126	03/20/23 02:31	SMC	EET MID

**Client Sample ID: AH-7 (3-3.5')**

**Lab Sample ID: 890-4270-36**

**Date Collected: 03/09/23 00:00**

**Matrix: Solid**

**Date Received: 03/10/23 08:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48751	03/16/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48915	03/19/23 22:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48572	03/14/23 08:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 18:01	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	48591	03/14/23 11:19	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	49126	03/20/23 02:36	SMC	EET MID

**Client Sample ID: AH-7 (4-4.5')**

**Lab Sample ID: 890-4270-37**

**Date Collected: 03/09/23 00:00**

**Matrix: Solid**

**Date Received: 03/10/23 08:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	48751	03/16/23 13:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48915	03/19/23 22:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49092	03/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48572	03/14/23 08:46	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/14/23 18:24	SM	EET MID

Eurofins Carlsbad

# Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

**Client Sample ID: AH-7 (4-4.5')**

**Lab Sample ID: 890-4270-37**

**Date Collected: 03/09/23 00:00**

**Matrix: Solid**

**Date Received: 03/10/23 08:41**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	49600	03/27/23 10:32	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49677	03/27/23 13:34	SMC	EET MID

**Laboratory References:**

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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# Accreditation/Certification Summary

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

## Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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# Method Summary

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

**Protocol References:**

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



# Sample Summary

Client: Tetra Tech, Inc.  
Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1  
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4270-1	H-1	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-2	H-2	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-3	H-3	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-4	H-4	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-5	H-5	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-6	H-6	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-7	AH-1 (0-1')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-8	AH-1 (1-1.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-9	AH-1 (2-2.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-10	AH-1 (3-3.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-11	AH-1 (4-4.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-12	AH-2 (0-1')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-13	AH-2 (1-1.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-14	AH-2 (2-2.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-15	AH-2 (3-3.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-16	AH-2 (4-4.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-17	AH-3 (0-1')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-18	AH-3 (1-1.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-19	AH-3 (2-2.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-20	AH-3 (3-3.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-21	AH-4 (0-1')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-22	AH-4 (1-1.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-23	AH-4 (2-2.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-24	AH-4 (3-3.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-25	AH-5 (0-1')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-26	AH-5 (1-1.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-27	AH-5 (2-2.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-28	AH-5 (3-3.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-29	AH-6 (0-1')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-30	AH-6 (1-1.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-31	AH-6 (2-2.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-32	AH-6 (3-3.5)	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-33	AH-7 (0-1')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-34	AH-7 (1-1.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-35	AH-7 (2-2.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-36	AH-7 (3-3.5')	Solid	03/09/23 00:00	03/10/23 08:41
890-4270-37	AH-7 (4-4.5')	Solid	03/09/23 00:00	03/10/23 08:41

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Analysis Request of Chain of Custody Record



# Tetra Tech, Inc.

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

890-4270 Chain of Custody



Page 1 of 4

Client Name: Chevron Site Manager: Brittany Long

Project Name: Hayhurst NM Section 9 CTB (432) 741-5813  
Project #: Brittany.long@tetratech.com

Project Location: Eddy County, NM Project #: 212C-MD-03038

Invoice to: Chevron Attn: Amy Barnhill

Receiving Laboratory: Eurofins Sampler Signature: Miguel A. Flores

Comments:

LAB # <small>(LAB USE ONLY)</small>	SAMPLE IDENTIFICATION		SAMPLING		MATRIX				PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
	YEAR: 2023	DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE				
H-1		3/9/2023		X				X				X
H-2		3/9/2023		X				X				X
H-3		3/9/2023		X				X				X
H-4		3/9/2023		X				X				X
H-5		3/9/2023		X				X				X
H-6		3/9/2023		X				X				X
AH-1 (0-1)		3/9/2023		X				X				X
AH-1 (1-1.5)		3/9/2023		X				X				X
AH-1 (2-2.5)		3/9/2023		X				X				X
AH-1 (3-3.5)		3/9/2023		X				X				X

Relinquished by: Miguel A Flores Date: Time:

Relinquished by: Miguel A Flores Date: Time:

Relinquished by: Miguel A Flores Date: Time:

### ANALYSIS REQUEST (Circle or Specify Method No.)

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

LAB USE ONLY

REMARKS: Standard TAT

Sample Temperature: 5/3.0  
-6.2  
T.M.-007

ORIGINAL COPY

Analysis Request of Chain of Custody Record



# Tetra Tech. Inc.

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

Client Name: Chevron Site Manager: Brittany Long

Project Name: Hayhurst NM Section 9 CTB (432) 741-5813  
Brittany.Long@tetratech.com

Project Location: Eddy County, NM Project #: 212C-MD-03038

Receiving Laboratory: Eurofins Sampler Signature: Miguel A. Flores

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE		
	AH-1 (4-4.5)	3/9/2023		X	X	X	X	X		
	AH-2 (0-1')	3/9/2023		X	X	X	X	X		
	AH-2 (1-1.5')	3/9/2023		X	X	X	X	X		
	AH-2 (2-2.5')	3/9/2023		X	X	X	X	X		
	AH-2 (3-3.5')	3/9/2023		X	X	X	X	X		
	AH-2 (4-4.5')	3/9/2023		X	X	X	X	X		
	AH-3 (0-1')	3/9/2023		X	X	X	X	X		
	AH-3 (1-1.5')	3/9/2023		X	X	X	X	X		
	AH-3 (2-2.5')	3/9/2023		X	X	X	X	X		
	AH-3 (3-3.5')	3/9/2023		X	X	X	X	X		

Received by: *Miguel A Flores* Date: 03-10-23 Time: 08:05

Received by: *Michelle Steff* Date: 3-10-23 Time: 08:41

Relinquished by: *Miguel A Flores* Date: Time:

Relinquished by: *Michelle Steff* Date: Time:

Relinquished by: *Michelle Steff* Date: Time:

Relinquished by: *Michelle Steff* Date: Time:

LAB USE ONLY

REMARKS: **Standard TAT**

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ANALYSIS REQUEST  
(Circle or Specify Method No.)



ORIGINAL COPY

Analysis Request of Chain of Custody Record



# Tetra Tech, Inc.

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

Client Name: Chevron Site Manager: Britiany Long

Project Name: Hayhurst NM Section 9 CTB (432) 741-5813  
Project #: Britiany.long@tetratech.com

Project Location: Eddy County, NM Project #: 212C-MD-03038

Invoice to: Chevron Attn: Amy Barnhill

Receiving Laboratory: Eurofins Sampler Signature: Miguel A. Flores

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX			PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE			
	AH-4 (0-1')	3/9/2023		X	X	X	X				
	AH-4 (1-1.5')	3/9/2023		X	X	X	X				
	AH-4 (2-2.5')	3/9/2023		X	X	X	X				
	AH-4 (3-3.5')	3/9/2023		X	X	X	X				
	AH-5 (0-1')	3/9/2023		X	X	X	X				
	AH-5 (1-1.5')	3/9/2023		X	X	X	X				
	AH-5 (2-2.5')	3/9/2023		X	X	X	X				
	AH-5 (3-3.5')	3/9/2023		X	X	X	X				
	AH-6 (0-1')	3/9/2023		X	X	X	X				
	AH-6 (1-1.5')	3/9/2023		X	X	X	X				

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)

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

Relinquished by: Miguel A Flores Date: Time: Received by: Britiany Long Date: 3/10/23 Time: 8:05

Relinquished by: [Signature] Date: Time: Received by: [Signature] Date: 3/10/23 Time: 0841

**LAB USE ONLY**

Sample Temperature: 78.1

REMARKS: Standard TAT

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

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Analysis Request of Chain of Custody Record



# Tetra Tech, Inc.

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

Client Name: Chevron  
 Site Manager: Brittany Long  
 Project Name: Hayhurst NM Section 9 CTB  
 Project #: (432) 741-5813  
 Brittany.long@tetratech.com  
 Project Location: Eddy County, NM  
 Invoice to: Chevron Attn: Amy Barnhill  
 Receiving Laboratory: Eurofins  
 Project # #: 212C-MD-03038  
 Sampler Signature: Miguel A. Flores

ANALYSIS REQUEST  
 (Circle or Specify Method No.)

LAB USE ONLY

REMARKS: **Standard TAT**

Sample Temperature:  RUSH: Same Day 24 hr 48 hr 72 hr  
 Rush Charges Authorized  
 Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

LAB #	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE		
AH-6 (2-2.5')		3/9/2023		X				X		
AH-6 (3-3.5')		3/9/2023		X				X		
AH-7 (0-1')		3/9/2023		X				X		
AH-7 (1-1.5')		3/9/2023		X				X		
AH-7 (2-2.5')		3/9/2023		X				X		
AH-7 (3-3.5')		3/9/2023		X				X		
AH-7 (4-4.5')		3/9/2023		X				X		

Relinquished by: Miguel A Flores  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: *[Signature]*  
 Date: 03-10-23 Time: 8:05  
 Relinquished by: *[Signature]*  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: *[Signature]*  
 Date: 3-10-23 Time: 0841

ORIGINAL COPY



### Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-4270-1  
SDG Number: Eddy County NM

**Login Number: 4270**  
**List Number: 1**  
**Creator: Stutzman, Amanda**

**List Source: Eurofins Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	Refer to job narrative
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

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### Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-4270-1  
SDG Number: Eddy County NM

**Login Number: 4270**  
**List Number: 2**  
**Creator: Rodriguez, Leticia**

**List Source: Eurofins Midland**  
**List Creation: 03/13/23 08:24 AM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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

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December 20, 2023

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: SEC. 9 CTB

Enclosed are the results of analyses for samples received by the laboratory on 12/19/23 16:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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  
 BRITTANY LONG  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 3 BH - 1 1.5' (H236756-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.37	118	2.00	0.00464	
<b>Toluene*</b>	<b>0.071</b>	0.050	12/19/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>240</b>	16.0	12/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	148	74.2	200	8.77	
<b>DRO &gt;C10-C28*</b>	<b>41.5</b>	10.0	12/20/2023	ND	155	77.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 3 BH - 2 1.5' (H236756-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.37	118	2.00	0.00464	
<b>Toluene*</b>	<b>0.099</b>	0.050	12/19/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	12/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	148	74.2	200	8.77	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	155	77.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 3 BH - 3 1.5' (H236756-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.37	118	2.00	0.00464	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	148	74.2	200	8.77	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	155	77.7	200	6.07	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 3 SW - 1 (H236756-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.37	118	2.00	0.00464	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	12/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 68.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 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  
 BRITTANY LONG  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 3 SW - 2 (H236756-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.37	118	2.00	0.00464	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 3 SW - 3 (H236756-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.37	118	2.00	0.00464	
<b>Toluene*</b>	<b>0.051</b>	0.050	12/19/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	12/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	180	90.2	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	177	88.5	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 3 SW - 4 (H236756-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.37	118	2.00	0.00464	
<b>Toluene*</b>	<b>0.072</b>	0.050	12/19/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	12/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	180	90.2	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	177	88.5	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 6 SW - 1 (H236756-08)**

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	12/19/2023	ND	2.37	118	2.00	0.00464	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	180	90.2	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	177	88.5	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 6 SW - 2 (H236756-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.37	118	2.00	0.00464	
<b>Toluene*</b>	<b>0.059</b>	0.050	12/19/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	12/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	180	90.2	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	177	88.5	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 6 SW - 3 (H236756-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.37	118	2.00	0.00464	
<b>Toluene*</b>	<b>0.064</b>	0.050	12/19/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	12/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	180	90.2	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	177	88.5	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.7 % 49.1-148

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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 6 SW - 4 (H236756-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.37	118	2.00	0.00464	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	180	90.2	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	177	88.5	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 6 BH - 1 1' (H236756-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.37	118	2.00	0.00464	
<b>Toluene*</b>	<b>0.071</b>	0.050	12/19/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	12/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	180	90.2	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	177	88.5	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 49.1-148

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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 6 BH - 2 1' (H236756-13)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.37	118	2.00	0.00464	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	180	90.2	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	177	88.5	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 70.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.2 % 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  
 BRITTANY LONG  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 6 BH - 3 1' (H236756-14)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.37	118	2.00	0.00464	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	180	90.2	200	3.87	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	177	88.5	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 7 SW - 1 (H236756-15)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.37	118	2.00	0.00464	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 7 SW - 2 (H236756-16)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.37	118	2.00	0.00464	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/20/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 7 SW - 3 (H236756-17)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.37	118	2.00	0.00464	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 7 SW - 4 (H236756-18)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	2.37	118	2.00	0.00464	
Toluene*	<0.050	0.050	12/19/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 75.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 7 BH - 1 4.5' (H236756-19)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.37	118	2.00	0.00464	
Toluene*	<0.050	0.050	12/20/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	96.0	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 7 BH - 2 4.5' (H236756-20)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.37	118	2.00	0.00464	
Toluene*	<0.050	0.050	12/20/2023	ND	2.34	117	2.00	0.338	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.33	116	2.00	0.109	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.33	122	6.00	0.110	
Total BTEX	<0.300	0.300	12/20/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/15/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 7 BH - 3 4.5' (H236756-21)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	1.97	98.6	2.00	0.0273	
Toluene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 1 SW - 1 (H236756-22)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	1.97	98.6	2.00	0.0273	
Toluene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/19/2023	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
Chloride	144	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 70.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 1 SW - 2 (H236756-23)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	1.97	98.6	2.00	0.0273	
Toluene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 1 SW - 3 (H236756-24)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	1.97	98.6	2.00	0.0273	
Toluene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	96.0	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 75.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 1 SW - 4 (H236756-25)**

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	12/19/2023	ND	1.97	98.6	2.00	0.0273	
Toluene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	172	86.1	200	0.777	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	161	80.3	200	4.84	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 65.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 1 SW - 5 (H236756-26)**

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	12/19/2023	ND	1.97	98.6	2.00	0.0273	
Toluene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 1 SW - 6 (H236756-27)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	1.97	98.6	2.00	0.0273	
Toluene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/19/2023	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
Chloride	80.0	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 68.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 49.1-148

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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 1 SW - 7 (H236756-28)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	1.97	98.6	2.00	0.0273	
Toluene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	173	86.3	200	0.635	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	179	89.7	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 1 SW - 8 (H236756-29)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	1.97	98.6	2.00	0.0273	
<b>Toluene*</b>	<b>0.055</b>	0.050	12/19/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/19/2023	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>64.0</b>	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	173	86.3	200	0.635	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	179	89.7	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.6 % 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  
 BRITTANY LONG  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 1 SW - 9 (H236756-30)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	1.97	98.6	2.00	0.0273	
Toluene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	336	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	173	86.3	200	0.635	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	179	89.7	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 1 BH - 1 4.5' (H236756-31)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	1.97	98.6	2.00	0.0273	
Toluene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/19/2023	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
Chloride	320	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	173	86.3	200	0.635	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	179	89.7	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 1 BH - 2 4.5' (H236756-32)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	1.97	98.6	2.00	0.0273	
Toluene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	173	86.3	200	0.635	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	179	89.7	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 1 BH - 3 4.5' (H236756-33)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	1.97	98.6	2.00	0.0273	
Toluene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	240	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	173	86.3	200	0.635	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	179	89.7	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 1 BH - 4 4.5' (H236756-34)**

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	12/19/2023	ND	1.97	98.6	2.00	0.0273	
Toluene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	173	86.3	200	0.635	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	179	89.7	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 4 SW - 1 (H236756-35)**

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	12/19/2023	ND	1.97	98.6	2.00	0.0273	
Toluene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	173	86.3	200	0.635	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	179	89.7	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 4 SW - 2 (H236756-36)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	1.97	98.6	2.00	0.0273	
Toluene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/19/2023	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
Chloride	80.0	16.0	12/20/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	173	86.3	200	0.635	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	179	89.7	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 4 SW - 3 (H236756-37)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	1.97	98.6	2.00	0.0273	
Toluene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/19/2023	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
Chloride	96.0	16.0	12/20/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 69.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 4 SW - 4 (H236756-38)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2023	ND	1.97	98.6	2.00	0.0273	
Toluene*	<0.050	0.050	12/19/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/19/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/19/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/19/2023	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
Chloride	96.0	16.0	12/20/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 4 BH - 1 1' (H236756-39)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	1.97	98.6	2.00	0.0273	
Toluene*	<0.050	0.050	12/20/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/20/2023	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
Chloride	80.0	16.0	12/20/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.0	200	1.83	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	190	94.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 4 BH - 2 1' (H236756-40)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	1.97	98.6	2.00	0.0273	
<b>Toluene*</b>	<b>0.073</b>	0.050	12/20/2023	ND	2.09	105	2.00	0.171	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.05	102	2.00	0.257	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	6.26	104	6.00	0.540	
Total BTEX	<0.300	0.300	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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>112</b>	16.0	12/20/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.0	200	1.83	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	190	94.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 4 BH - 3 1' (H236756-42)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.57	128	2.00	9.69	
<b>Toluene*</b>	<b>0.061</b>	0.050	12/20/2023	ND	2.50	125	2.00	13.6	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.60	130	2.00	13.4	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.74	129	6.00	13.4	
Total BTEX	<0.300	0.300	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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>112</b>	16.0	12/20/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.0	200	1.83	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	190	94.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 4 BH - 4 1' (H236756-43)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.57	128	2.00	9.69	
Toluene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	13.6	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.60	130	2.00	13.4	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.74	129	6.00	13.4	
Total BTEX	<0.300	0.300	12/20/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/20/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.0	200	1.83	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	190	94.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 74.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 4 BH - 5 1' (H236756-44)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2023	ND	2.57	128	2.00	9.69		
Toluene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	13.6		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.60	130	2.00	13.4		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.74	129	6.00	13.4		
Total BTEX	<0.300	0.300	12/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	96.0	16.0	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.0	200	1.83		
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	190	94.8	200	7.17		
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND						

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 4 BH - 6 1' (H236756-45)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.57	128	2.00	9.69	
<b>Toluene*</b>	<b>0.062</b>	0.050	12/20/2023	ND	2.50	125	2.00	13.6	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.60	130	2.00	13.4	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.74	129	6.00	13.4	
Total BTEX	<0.300	0.300	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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>96.0</b>	16.0	12/20/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.0	200	1.83	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	190	94.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 4 BH - 7 1' (H236756-46)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.57	128	2.00	9.69	
<b>Toluene*</b>	<b>0.093</b>	0.050	12/20/2023	ND	2.50	125	2.00	13.6	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.60	130	2.00	13.4	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.74	129	6.00	13.4	
Total BTEX	<0.300	0.300	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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>112</b>	16.0	12/20/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.0	200	1.83	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	190	94.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 71.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 49.1-148

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**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 4 BH - 8 1' (H236756-47)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.57	128	2.00	9.69	
Toluene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	13.6	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.60	130	2.00	13.4	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.74	129	6.00	13.4	
Total BTEX	<0.300	0.300	12/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	96.0	16.0	12/20/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	186	93.0	200	1.83	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	190	94.8	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 75.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 4 BH - 9 1' (H236756-48)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2023	ND	2.57	128	2.00	9.69	
<b>Toluene*</b>	<b>0.073</b>	0.050	12/20/2023	ND	2.50	125	2.00	13.6	
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.60	130	2.00	13.4	
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.74	129	6.00	13.4	
Total BTEX	<0.300	0.300	12/20/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	12/20/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18	
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND					

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	12/19/2023	Sampling Date:	12/14/2023
Reported:	12/20/2023	Sampling Type:	Soil
Project Name:	SEC. 9 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY, NM		

**Sample ID: AH - 4 BH - 10 1' (H236756-49)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/20/2023	ND	2.57	128	2.00	9.69		
Toluene*	<0.050	0.050	12/20/2023	ND	2.50	125	2.00	13.6		
Ethylbenzene*	<0.050	0.050	12/20/2023	ND	2.60	130	2.00	13.4		
Total Xylenes*	<0.150	0.150	12/20/2023	ND	7.74	129	6.00	13.4		
Total BTEX	<0.300	0.300	12/20/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/20/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/20/2023	ND	200	100	200	5.18		
DRO >C10-C28*	<10.0	10.0	12/20/2023	ND	198	99.2	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	12/20/2023	ND						

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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

Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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

*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Custody Record



Tetra Tech, Inc.

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

Client: Chevron Site Manager: Brittany Long

Project Name: Sec. 9 CTB Project #:

Project Location: Eddy, NM

Receiving Laboratory: Cardinal Labs

Sampler Signature: [Signature]

Comments:

LAB #	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		DATE	TIME		WATER	SOIL	HCL		
1	AH-3 BH-1 1.5'	12/15	10:00 AM	X	X	X	X	X	X
2	AH-3 BH-2 1.5'		10:05 AM	X	X	X	X	X	X
3	AH-3 BH-3 1.5'		10:10 AM	X	X	X	X	X	X
4	AH-3 SW-1		10:15 AM	X	X	X	X	X	X
5	AH-3 SW-2		10:20 AM	X	X	X	X	X	X
6	AH-3 SW-3		10:25 AM	X	X	X	X	X	X
7	AH-3 SW-4		10:30 AM	X	X	X	X	X	X
8	AH-6 SW-1		10:35 AM	X	X	X	X	X	X
9	AH-6 SW-2		10:40 AM	X	X	X	X	X	X
10	AH-6 SW-3		10:45 AM	X	X	X	X	X	X

LAB USE ONLY	REMARKS:
<p>Relinquished by: <u>Brady Vangron</u> Date: <u>12/19</u> Time: <u>1650</u></p> <p>Relinquished by: _____ Date: _____ Time: _____</p>	<p>Received by: <u>[Signature]</u> Date: <u>12/19-23</u> Time: <u>1655</u></p> <p>Received by: _____ Date: _____ Time: _____</p>
<p>Relinquished by: _____ Date: _____ Time: _____</p>	<p>Received by: _____ Date: _____ Time: _____</p>

**ANALYSIS REQUEST (Circle or Specify Method No.)**

BTEX 8021B BTEX 8260B

TPH TX1005 (Ext to C35)

TPH 8015M ( GRO - DRO - ORO - MRO)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride 4500

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Hold

LAB USE ONLY

Sample Temperature: #140

REMARKS:

RUSH: Same Day 24 hr  48 hr  72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Analysis Request of Custody Record



Tetra Tech, Inc.

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

ANALYSIS REQUEST

(Circle or Specify Method No.)

Client: Cherren Site Manager: Brittany Long

Project Name: Sec 9 CTB Project #:

Project Location: Eddy, NM

Invoice to:

Receiving Laboratory: Cardinal Labs Sampler Signature: [Signature]

Comments:

LAB # H336750

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		DATE	TIME	MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		YEAR	DATE			WATER	SOIL	HCL	HNO <sub>3</sub>	ICE		
11	AH-6 SW-4			12/15	10:50 AM	X	X	X	X	X	X	
12	AH-6 BH-1				10:55 AM	X	X	X	X	X	X	
13	AH-6 BH-2				11:00 AM	X	X	X	X	X	X	
14	AH-6 BH-3				11:05 AM	X	X	X	X	X	X	
15	AH-7 SW-1				11:10 AM	X	X	X	X	X	X	
16	AH-7 SW-2				11:15 AM	X	X	X	X	X	X	
17	AH-7 SW-3				11:20 AM	X	X	X	X	X	X	
18	AH-7 SW-4				11:30 AM	X	X	X	X	X	X	
19	AH-7 BH-1				11:35 AM	X	X	X	X	X	X	
20	AH-7 BH-2				11:40 AM	X	X	X	X	X	X	

Relinquished by: Breedy Vaughan Date: 12/19 Time: 1656

Relinquished by: [Signature] Date: 12-19-23 Time: 1655

Received by: [Signature] Date: 12-19-23 Time: 1655

Received by: [Signature] Date: 12-19-23 Time: 1655

LAB USE ONLY

REMARKS:

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: #140

Temperature: 1.9°C

BTX 8021B BTEX 8260B

TPH TX1005 (Ext to C35)

TPH 8015M (GRO - DRO - ORO - MRO)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride 4500

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Hold

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client: Chevron  
Site Manager: Brittany Long

Project Name: Sec. 9 CTB

Project Location: (county, state) Eddy, NM

Project #: \_\_\_\_\_

Receiving Laboratory: Cardinal Labs  
Sampler Signatures: *[Signature]*

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX			PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE			

21	AH-7 BH-3 4.5'	12/15	11:45 AM	X				X			
22	AH-1 SW-1	12/14	9:00 AM	X				X			
23	AH-1 SW-2		9:05 AM	X				X			
24	AH-1 SW-3		9:10 AM	X				X			
25	AH-1 SW-4		9:15 AM	X				X			
26	AH-1 SW-5		9:20 AM	X				X			
27	AH-1 SW-6		9:25 AM	X				X			
28	AH-1 SW-7		9:30 AM	X				X			
29	AH-1 SW-8		9:35 AM	X				X			
30	AH-1 SW-9		9:40 AM	X				X			

Relinquished by: Brady Vanham 12/19 1656  
Received by: *[Signature]* 12-19-23  
Date: 12/19 1656  
Time: \_\_\_\_\_  
Date: 12-19-23  
Time: \_\_\_\_\_

ANALYSIS REQUEST  
(Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTEX 8021B	BTEX 8260B
<input checked="" type="checkbox"/>	TPH TX1005 (Ext to C35)	
<input checked="" type="checkbox"/>	TPH 8015M (GRO - DRO - ORO - MRO)	
<input type="checkbox"/>	PAH 8270C	
<input type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg	
<input type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
<input type="checkbox"/>	TCLP Volatiles	
<input type="checkbox"/>	TCLP Semi Volatiles	
<input type="checkbox"/>	RCI	
<input type="checkbox"/>	GC/MS Vol. 8260B / 624	
<input type="checkbox"/>	GC/MS Semi. Vol. 8270C/625	
<input type="checkbox"/>	PCB's 8082 / 608	
<input type="checkbox"/>	NORM	
<input type="checkbox"/>	PLM (Asbestos)	
<input checked="" type="checkbox"/>	Chloride 4500	
<input type="checkbox"/>	Chloride Sulfate TDS	
<input type="checkbox"/>	General Water Chemistry (see attached list)	
<input type="checkbox"/>	Anion/Cation Balance	
<input type="checkbox"/>	Hold	

LAB USE ONLY  
REMARKS:  
 RUSH: Same Day 24 hr 48 hr 72 hr  
 Rush Charges Authorized  
 Special Report Limits or TRRP Report

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Analysis Request of Custody Record



Tetra Tech, Inc.

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

Client: *Chevron* Site Manager: *Brittany Long*

Project Name: *Sec. 9 OTB*

Project Location: *Eddy, NM*

Receiving Laboratory: *Cardinal Labs*

Comments: *Sample Signature: B. Langston*

LAB # *A236756*  
(LAB USE ONLY)

SAMPLE IDENTIFICATION

LAB #	SAMPLE IDENTIFICATION	SAMPLING		DATE	TIME	MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		YEAR	DATE			WATER	SOIL	HCL	HNO <sub>3</sub>	ICE		
31	AH-1 BH-1 4.5'		12/14		9:45	X				X		
32	AH-1 BH-2 4.5'				9:50	X				X		
33	AH-1 BH-3 4.5'				9:55	X				X		
34	AH-1 BH-4 4.5'				10:00	X				X		
35	AH-4 SW-1				10:05	X				X		
36	AH-4 SW-2				10:10	X				X		
37	AH-4 SW-3				10:15	X				X		
38	AH-4 SW-4				10:20	X				X		
39	AH-4 BH-1 1'				10:25	X				X		
40	AH-4 BH-2 1'				10:30	X				X		

Relinquished by: *Brady Langston* Date: *12/19/2019* Time: *16:56*

Received by: *Brittany Long* Date: *12-19-23* Time: *16:55*

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB USE ONLY

REMARKS:

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: *#140*

Temperature: *1.9°C*

(Circle) HAND DELIVERED FEDEX UPS Tracking #: \_\_\_\_\_

BTEX 8021B BTEX 8260B

TPH TX1005 (Ext to C35)

TPH 8015M (GRO - DRO - ORO - MRO)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride *4500*

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Hold

ORIGINAL COPY

Analysis Request of Custody Record



Tetra Tech, Inc.

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

ANALYSIS REQUEST  
(Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride <u>450</u>	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
Hold	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		DATE	TIME	MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		YEAR	DATE			WATER	SOIL	HCL	HNO <sub>3</sub>	ICE		
41	AM-4 BH-2	12/14	10:35			X	X	X	X	X	X	
42	AM-4 BH-3		10:40			X	X	X	X	X	X	
43	AM-4 BH-4		10:45			X	X	X	X	X	X	
44	AM-4 BH-5		10:50			X	X	X	X	X	X	
45	AM-4 BH-6		10:55			X	X	X	X	X	X	
46	AM-4 BH-7		11:00			X	X	X	X	X	X	
47	AM-4 BH-8		11:05			X	X	X	X	X	X	
48	AM-4 BW-9		11:10			X	X	X	X	X	X	
49	AM-4 BH-10		11:15			X	X	X	X	X	X	

Client: Chevron Site Manager: Brittany Long

Project Name: Sec 9 CTB Project #:

Project Location: Eddy, NM

Invoice to:

Receiving Laboratory: Cardinal Labs Sampler Signature: [Signature]

Comments:

Relinquished by: Brady Langston Date: 12/19/16 Time: 16:56

Relinquished by: [Signature] Date: 12-19-23 Time: 16:55

Received by: [Signature] Date: 12-19-23 Time: 16:55

Received by: [Signature] Date: 12-19-23 Time: 16:55

LAB USE ONLY

REMARKS:

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: #140

1.92

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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# Appendix D

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## State Correspondence

## Long, Brittany

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**From:** Long, Brittany  
**Sent:** Friday, December 8, 2023 2:13 PM  
**To:** Enviro, OCD, EMNRD  
**Cc:** Gonzales, Clair; Mauk, Madeline  
**Subject:** Chevron U.S.A., Inc. Hayhurst NM Section 9 CTB (nAPP2302847724) Confirmation Sampling Notification

To whom it may concern,

Tetra Tech is scheduled to collect 5 point confirmation, bottom hole and sidewall samples, for the Chevron Hayhurst NM Section 9 CTB remediation (nAPP2302847724) starting on Wednesday, December 13, 2023, at 8:00 AM. These samples will be placed within the remediation and will continue each day as the remediation progresses. Please let me know if you have any questions or need any additional information.

Best Regards,

*Brittany D. Long,*

**Brittany D. Long** | Biologist & Project Manager  
Phone: 432.682.4559 | Mobile 432.741.5813 | Fax:432.682.3946  
[Brittany.Long@tetrattech.com](mailto:Brittany.Long@tetrattech.com)

**Tetra Tech** | *Leading with Science*<sup>®</sup>  
901 West Wall Street, Suite 100 Midland, Texas 79701

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

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

QUESTIONS

Action 333074

**QUESTIONS**

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 333074
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2302847724
Incident Name	NAPP2302847724 HAYHURST NM SECTION 9 CTB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2131341164] Hayhurst NM Section 9 CTB

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	HAYHURST NM SECTION 9 CTB
Date Release Discovered	01/13/2023
Surface Owner	Federal

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

<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	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Tank (Any)   Produced Water   Released: 271 BBL   Recovered: 60 BBL   Lost: 211 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)	N/A

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QUESTIONS, Page 2

Action 333074

**QUESTIONS (continued)**

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**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>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/15/2024
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QUESTIONS, Page 3

Action 333074

**QUESTIONS (continued)**

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 333074
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
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)	5970
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	49
GRO+DRO (EPA SW-846 Method 8015M)	49
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	12/11/2023
On what date will (or did) the final sampling or liner inspection occur	12/21/2023
On what date will (or was) the remediation complete(d)	12/21/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	3574
What is the estimated volume (in cubic yards) that will be remediated	273

*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 333074

**QUESTIONS (continued)**

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:	4323
	Action Number:	333074
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and <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	R360 Artesia LLC LANDFARM [FEEM0112340644]
<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: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/15/2024
--	---

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 333074

**QUESTIONS (continued)**

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Deferral Requests Only**

*Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*

Requesting a deferral of the remediation closure due date with the approval of this submission	No
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QUESTIONS, Page 6

Action 333074

**QUESTIONS (continued)**

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	Action Number:	333074
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>296099</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>12/21/2023</b>
What was the (estimated) number of samples that were to be gathered	<b>55</b>
What was the sampling surface area in square feet	<b>6041</b>

<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	<b>Yes</b>
Have the lateral and vertical extents of contamination been fully delineated	<b>Yes</b>
Was this release entirely contained within a lined containment area	<b>No</b>
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	<b>Yes</b>
What was the total surface area (in square feet) remediated	<b>3574</b>
What was the total volume (cubic yards) remediated	<b>273</b>
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	<b>Yes</b>
What was the total surface area (in square feet) reclaimed	<b>0</b>
What was the total volume (in cubic yards) reclaimed	<b>0</b>
Summarize any additional remediation activities not included by answers (above)	<b>Spill was all on pad</b>

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

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

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/15/2024
--	---

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QUESTIONS, Page 7

Action 333074

**QUESTIONS (continued)**

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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CONDITIONS

Action 333074

**CONDITIONS**

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2302847724 HAYHURST NM SECTION 9 CTB, thank you. This Remediation Closure Report is approved.	5/9/2024