

SITE INFORMATION

Report Type: Work Plan nAPP2302847724

General Site Information:

Site:	Hayhurst NM Section 9 CTB					
Company:	Chevron U.S.A., Inc.					
Section, Township and Range	Unit P	Sec. 08	T 26S	R 27E		
Lease Number:						
County:	Eddy County					
GPS:	32.053061			-104.205989		
Surface Owner:	Federal					
Mineral Owner:						
Directions:	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:

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

Official Communication:

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

Site Characterization

Depth to Groundwater:	17.75' Below Ground Surface
Karst Potential:	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



April 12, 2023

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	81ft	19ft
0.59 Miles	1/28/2003	USGS	N/A	17.75ft
1.11 Miles	1/9/2013	USGS	N/A	8.94ft

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 600 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 to total depths of 1.0 ft bgs directly outside of the impact outline, 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.

Work Plan

Based on the C-141 (nAPP2302847724) and information provided by Chevron, Tetra Tech performed site characterization and groundwater research to determine groundwater depth, release impact 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 most stringent RRALs of 600 mg/kg for chlorides and 100 mg/kg for TPH will be followed for the site. Based on Tetra Tech assessment and delineation activities, laboratory results indicated chloride concentrations above RRALs, throughout the release area, at auger holes (AH-1, AH-3, AH-4, AH-6, and AH-7), in total depths ranging from surface to 4.5 ft bgs.

Chevron proposes to vertically delineate the area of auger holes (AH-1 and AH-7) by installing trenches during remediation activities. Following the delineation, and based on the data and determined RRALs, Chevron will excavate the impacted areas to the required depths as shown in **Table 1** and on **Figure 4**. The areas of auger holes (AH-1 and AH-7) will be excavated to a minimum of 4.5 ft bgs, however the final depths of these areas will be determined by the proposed delineation trenches. The areas of auger holes (AH-4 and AH-6) will be excavated to a depth of 1.0 ft bgs. The areas of auger hole (AH-3) will be excavated to a depth of 1.5 ft bgs. Following excavation, 5-point composite confirmation bottom hole and sidewall samples will be installed within the remediated areas on a 200 square foot basis, to ensure impact is fully removed. The 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 black ink, appearing to read 'Brittany Long'.

Brittany Long
Project Manager

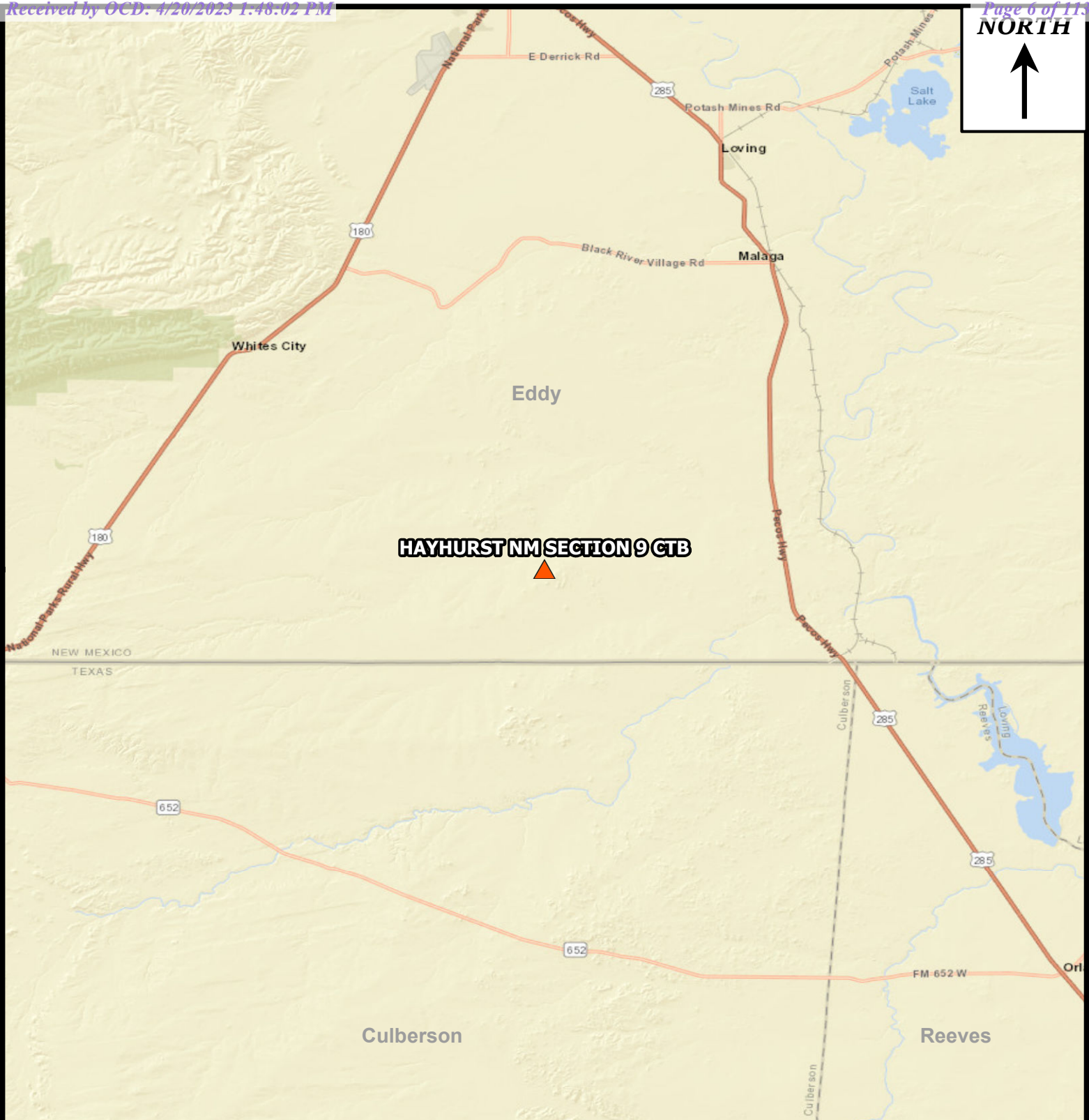
A handwritten signature in blue ink, appearing to read 'Clair Gonzales'.

Clair Gonzales, P.G.
Senior Project Manager



Figures

NORTH



▲ APPROXIMATE SITE LOCATION

0 18,000 36,000

Feet
Approximate Scale



SITE LOCATOR MAP

Chevron



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

Project: 212C-MD-03038

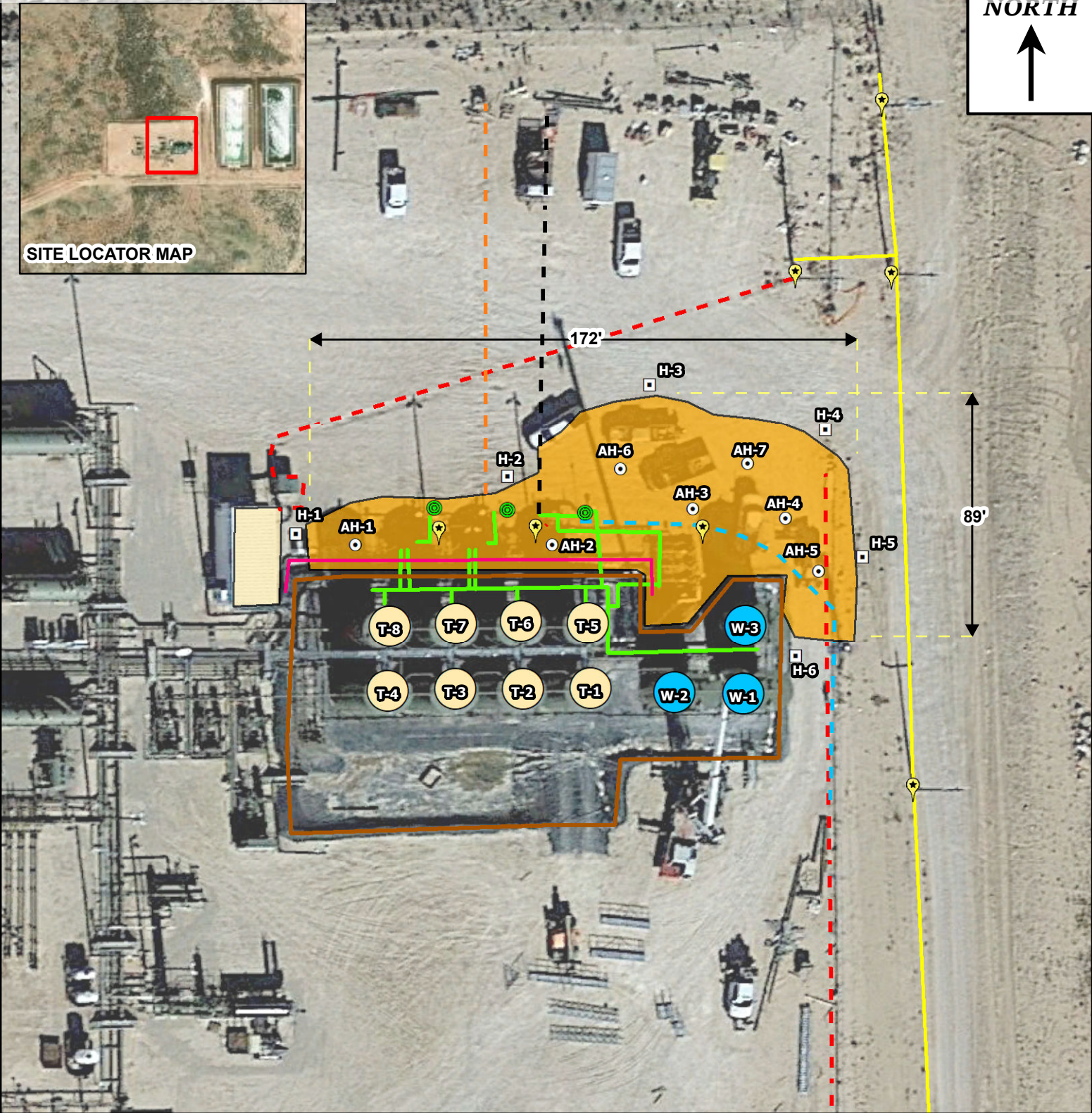
Date: 3/29/2023

Name: Figure 1 - Chevron - Hayhurst





SITE LOCATOR MAP



- 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

0 30 60
Feet
Approximate Scale



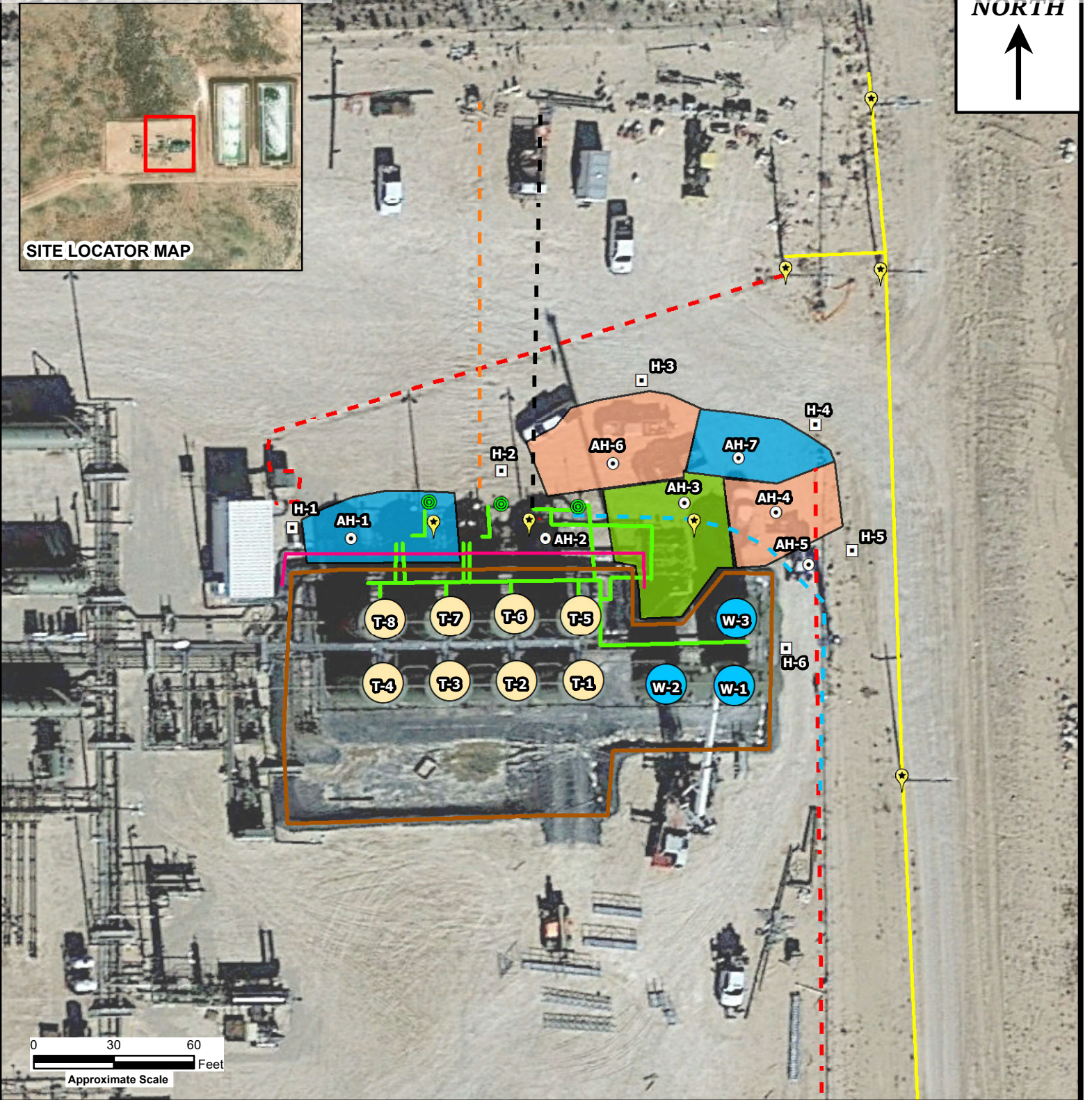
FIGURE 3
SITE ASSESSMENT MAP
HAYHURST NM SECTION 9 CTB
EDDY COUNTY, NEW MEXICO
32.0526030°, -104.2005392°

Project: 212C-MD-03038

Date: 4/3/2023

Name: Figure 3 - Chevron - Hayhurst





- 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
- PROPOSED 1.0' EXCAVATION
- PROPOSED 1.5' EXCAVATION
- PROPOSED 4.5' EXCAVATION



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

Project: 212C-MD-03038

Date: 4/3/2023

Name: Figure 4 - Chevron - Hayhurst





Tables

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)	
RRALs					100 mg/kg	10 mg/kg	50 mg/kg					600 mg/kg		
Assessment														
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	868
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	2,290
	"	1-1.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	715
	"	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	1,440
	"	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	2,250
	"	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	5,970
	"	1-1.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	848
	"	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	638

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)	
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
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



Photographic Documentation

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



View of Release Area – View East

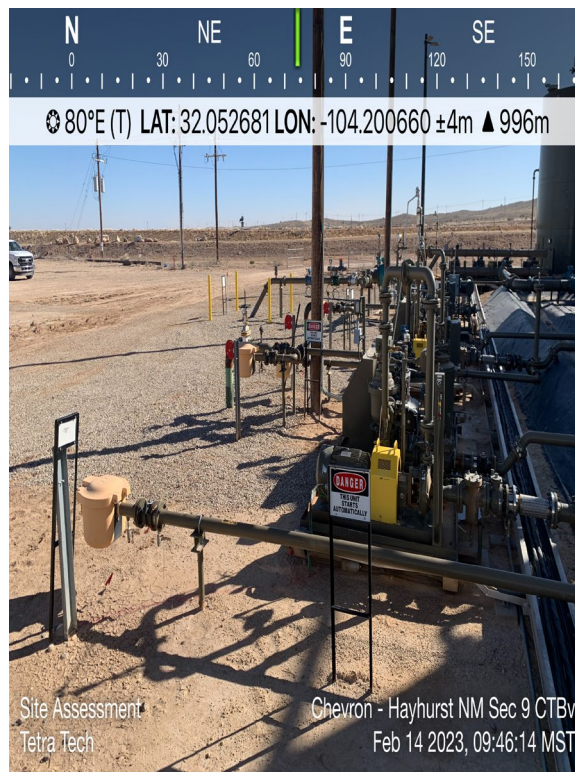


View of Release Area – View South

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



View of Release Area – View Southeast



View of Release Area – View East



Appendix A

C-141 Document

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2302847724
District RP	
Facility ID	fAPP2131341164
Application ID	

Release Notification

Responsible Party

Responsible Party: Chevron U.S.A., Inc.	OGRID: 4323
Contact Name: Catherine Smith	Contact Telephone: 432-967-9487
Contact email: catherinesmith@chevron.com	Incident # nAPP2302847724
Contact mailing address: 6301 Deauville Blvd Midland, TX 79706	

Location of Release Source

Latitude: 32.053061 _____ Longitude: -104.205989 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Hayhurst NM Section 9 CTB	Site Type: Oil
Date Release Discovered: 1/13/2023	API# (if applicable):

Unit Letter	Section	Township	Range	County
P	8	26S	27E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls): 270.808	Volume Recovered (bbls): 60
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

Leak from a water transfer pump when the pump ran dry of oil and seized.

Incident ID	nAPP2302847724
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Spill over 25 bbl.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Catherine Smith to Mike Bratcher and Rosa Romero, 1/14/2023 8:28 AM by email.	

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. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Catherine Smith</u>	Title: <u>Lead Environmental Specialist, Field Support</u>
Signature: 	Date: <u>1/28/2023</u>
email: <u>catherinesmith@chevron.com</u>	Telephone: <u>432-967-9487</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

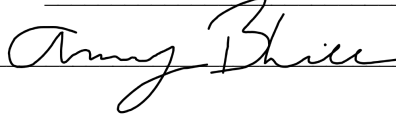
State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature:  Date: _____

email: _____ Telephone: _____

OCD OnlyReceived by: Jocelyn Harimon Date: 04/20/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

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

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

Printed Name: _____ Title: _____
Signature: Amy Blum Date: _____
email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 04/20/2023

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

Signature: _____ Date: _____

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								
						Total	1520.476042	270.8089468



Appendix B

Site Characterization Documents



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National Water Information System: Web Interface

USGS Water Resources

Data Category: GroundwaterGeographic Area: United StatesGO

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Agency code = usgs
site_no list =

- 320343104110201

Minimum number of levels = 1
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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

Table of data
Tab-separated data
Graph of data
Reselect period

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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USGS Water Resources

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Agency code = usgs
site_no list =

- 320323104112901

Minimum number of levels = 1
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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

Table of data

Tab-separated data

Graph of data

Reselect period

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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0.3 0.27 nadwww01



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02588	3	4	3	33	25S	27E	575645	3549575* 
Driller License: 1348		Driller Company:				TAYLOR WATER WELL SERVICE			
Driller Name:									
Drill Start Date:	05/31/1998	Drill Finish Date:				06/03/1998		Plug Date:	
Log File Date:	08/24/1998	PCW Rev Date:						Source:	Shallow
Pump Type:		Pipe Discharge Size:						Estimated Yield:	2 GPM
Casing Size:	5.00	Depth Well:				81 feet		Depth Water:	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

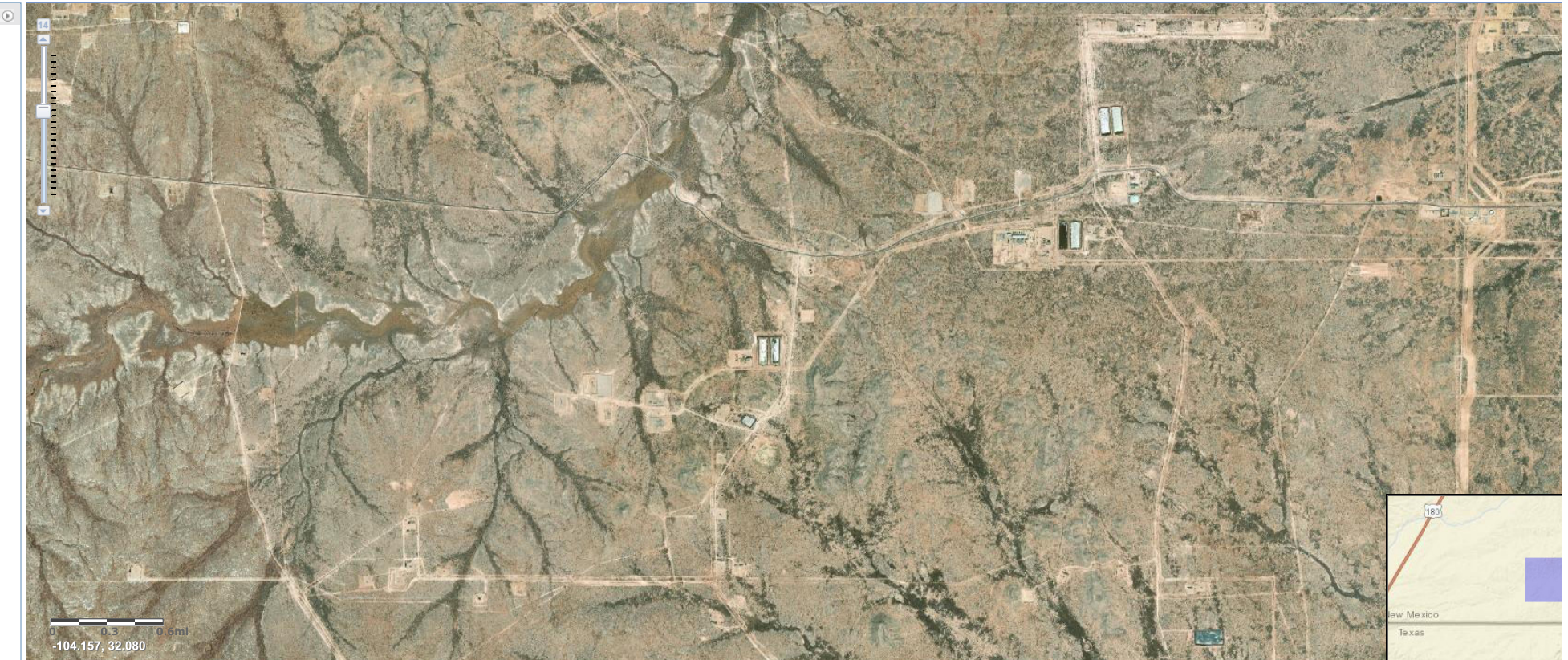
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/23/23 4:14 PM

POINT OF DIVERSION SUMMARY

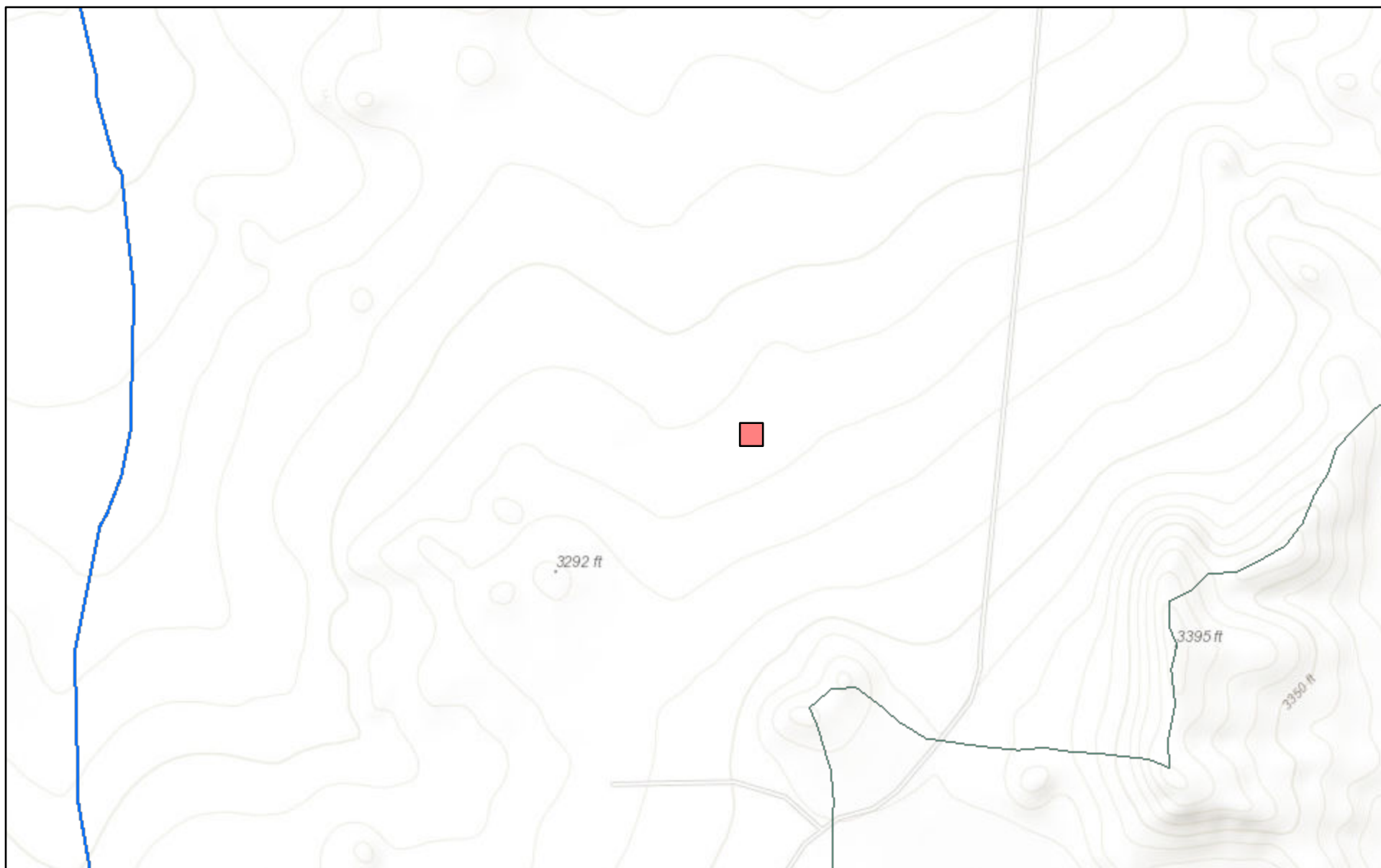


National Water Information System: Mapper

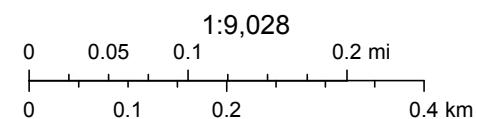


Site Information

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,

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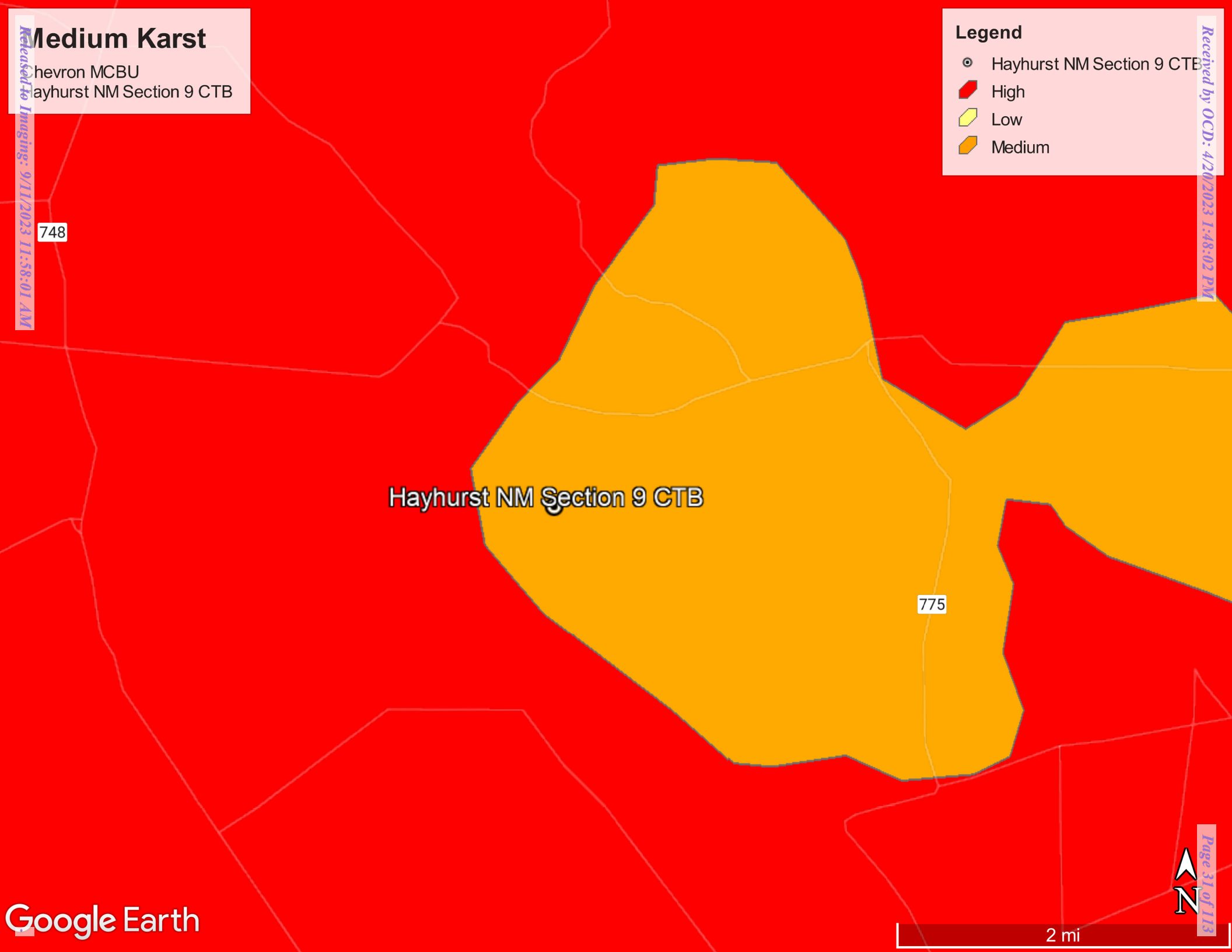
Medium Karst

hevron MCBU

ayhurst NM Section 9 CTB

Legend

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



Hayhurst NM Section 9 CTB

748

775



Appendix C

Laboratory Reports



Environment Testing

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
1089 N Canal St.
Carlsbad NM 88220

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

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

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

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

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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

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.

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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-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

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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-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
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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

Lab Sample ID: 890-4270-5

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 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

Lab Sample ID: 890-4270-6

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 13:18	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
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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')

Lab Sample ID: 890-4270-23

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
OII 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')

Lab Sample ID: 890-4270-24

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 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
OII 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 CTB

Job 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')

Lab Sample ID: 890-4270-26

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	<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')

Lab Sample ID: 890-4270-27

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 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
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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')

Lab Sample ID: 890-4270-30

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	<0.00404	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')

Lab Sample ID: 890-4270-31

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 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
OII 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
OII 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
OII 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
OII 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

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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: 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.

Project/Site: Hayhurst NM Section 9 CTB

Job ID: 890-4270-1

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.

Job ID: 890-4270-1

Project/Site: Hayhurst NM Section 9 CTB

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

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 Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 Result	LCS Qualifier	Unit	D	%Rec	%Rec 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 %Recovery	LCS Qualifier	Limits
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 Result	LCSD Qualifier	Unit	D	%Rec	%Rec 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 %Recovery	LCSD Qualifier	Limits
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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec 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

	MS	MS	
Surrogate	%Recovery	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

	MSD	MSD	
Surrogate	%Recovery	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

	MB	MB							
Surrogate	%Recovery	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

	LCS	LCS	
Surrogate	%Recovery	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

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
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

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
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

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
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		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
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

	Sample	Sample	Spike	MSD	MSD				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
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

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
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

	LCSD %Recovery	LCSD Qualifier	Limits
Surrogate			
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		

	MS %Recovery	MS Qualifier	Limits
Surrogate			
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

	MSD %Recovery	MSD Qualifier	Limits
Surrogate			
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

	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Surrogate						
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	LCS	LCS				%Rec		
			Added	Result	Qualifier	Unit	D	%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		

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

Analysis Data: 1000							Top Data: 1000				
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
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
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
Surrogate	MS %Recovery	MS Qualifier	Limits						
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

Rep Data: 100%											
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
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
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
o-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	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	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		
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		
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		
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	
LCSD 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	
LCSD 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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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

Date Collected: 03/09/23 00:00

Date Received: 03/10/23 08:41

Lab Sample ID: 890-4270-1

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 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

Date Collected: 03/09/23 00:00

Date Received: 03/10/23 08:41

Lab Sample ID: 890-4270-2

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 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

Date Collected: 03/09/23 00:00

Date Received: 03/10/23 08:41

Lab Sample ID: 890-4270-3

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 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

Date Collected: 03/09/23 00:00

Date Received: 03/10/23 08:41

Lab Sample ID: 890-4270-4

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 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

Date Collected: 03/09/23 00:00

Date Received: 03/10/23 08:41

Lab Sample ID: 890-4270-4

Matrix: Solid

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

Date Collected: 03/09/23 00:00

Date Received: 03/10/23 08:41

Lab Sample ID: 890-4270-5

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			5.01 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

Date Collected: 03/09/23 00:00

Date Received: 03/10/23 08:41

Lab Sample ID: 890-4270-6

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			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')

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
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

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-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

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-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

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-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

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-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

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-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

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-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')

Date Collected: 03/09/23 00:00

Date Received: 03/10/23 08:41

Lab Sample ID: 890-4270-37

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	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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- 2
- 3
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- 14

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

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

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 Location: Eddy County, NM		Project #: 212C-MD-03038	
Project (county, state):		Brittany.long@tetratech.com	
Invoice to: Chevron Attn: Amy Barnhill		Sampler Signature: Miguel A. Flores	
Receiving Laboratory: Eurofins		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE
H-1		3/9/2023		X		X				
H-2		3/9/2023		X		X				
H-3		3/9/2023		X		X				
H-4		3/9/2023		X		X				
H-5		3/9/2023		X		X				
H-6		3/9/2023		X		X				
AH-1 (0-1')		3/9/2023		X		X				
AH-1 (1-1.5')		3/9/2023		X		X				
AH-1 (2-2.5')		3/9/2023		X		X				
AH-1 (3-3.5')		3/9/2023		X		X				

Relinquished by: Miguel A Flores	Date: 03-10-23	Time: 8:05
Relinquished by: Miguel A Flores	Date: 03-10-23	Time: 8:05
Relinquished by: Miguel A Flores	Date: 03-10-23	Time: 8:05

LAB USE ONLY	REMARKS:
Standard TAT	
Sample Temperature	
3/3.0	
-6.2	
11m-007	
Special Report Limits or TRRP Report	

TPH TX1005 (Ext to C35)	X
TPH 8015M (GRO - DRO - ORO)	X
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	X
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 Name: Chevron		Site Manager: Brittany Long	
Project Name: Hayhurst NM Section 9 CTB		(432) 741-5813	
Project Location: Eddy County, NM		Project #: 212C-MD-03038	
Invoice to: Chevron Attn: Amy Barnhill		Sampler Signature: Miguel A. Flores	
Receiving Laboratory: Eurofins		Comments:	
LAB # (LAB USE ONLY)		SAMPLE IDENTIFICATION	
AH-1 (4-4.5)		3/9/2023	
AH-2 (0-1)		3/9/2023	
AH-2 (1-1.5)		3/9/2023	
AH-2 (2-2.5)		3/9/2023	
AH-2 (3-3.5)		3/9/2023	
AH-2 (4-4.5)		3/9/2023	
AH-3 (0-1)		3/9/2023	
AH-3 (1-1.5)		3/9/2023	
AH-3 (2-2.5)		3/9/2023	
AH-3 (3-3.5)		3/9/2023	
Relinquished by: Miguel A Flores		Received by: [Signature]	
Date: [Blank]		Date: 03-10-23	
Time: [Blank]		Time: 8:05	
Relinquished by: [Signature]		Received by: [Signature]	
Date: [Blank]		Date: 3-10-23	
Time: [Blank]		Time: 0841	

LAB USE ONLY		ANALYSIS REQUEST (Circle or Specify Method No.)	
BTEX 8021B BTEX 8260B		TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO)		PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg		TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles		TCLP Semi Volatiles	
RCI		GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625		PCB's 8082 / 608	
NORM		PLM (Asbestos)	
Chloride		Chloride Sulfate TDS	
General Water Chemistry (see attached list)		Anion/Cation Balance	
Hold			

REMARKS: Standard TAT

LAB USE ONLY

Sample Temperature

Special Report Limits or TRRP Report

Hand Delivered FEDEX UPS Tracking #:

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							
Project Location: Eddy County, NM		Project #: 212C-MD-03038							
Project Location: (county, state)		Project #: 212C-MD-03038							
Invoice to: Chevron Attn: Amy Barnhill		Sampler Signature: Miguel A. Flores							
Receiving Laboratory: Eurofins		Sampler Signature: Miguel A. Flores							
Comments:									
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	LAB USE ONLY	REMARKS:
		DATE	TIME						
	AH-4 (0-1')	3/9/2023		X	X			X	BTX 8021B BTX 8260B TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance Hold
	AH-4 (1-1.5')	3/9/2023		X	X			X	
	AH-4 (2-2.5')	3/9/2023		X	X			X	
	AH-4 (3-3.5')	3/9/2023		X	X			X	
	AH-5 (0-1')	3/9/2023		X	X			X	
	AH-5 (1-1.5')	3/9/2023		X	X			X	
	AH-5 (2-2.5')	3/9/2023		X	X			X	
	AH-5 (3-3.5')	3/9/2023		X	X			X	
	AH-6 (0-1')	3/9/2023		X	X			X	
	AH-6 (1-1.5')	3/9/2023		X	X			X	
	AH-6 (1-1.5')	3/9/2023		X	X			X	
Relinquished by: Miguel A Flores		Date: 3/9/2023	Time: 8:05	Received by: Miguel A Flores		Date: 3/9/2023	Time: 08:41	LAB USE ONLY	
Relinquished by: Miguel A Flores		Date: 3/9/2023	Time: 08:41	Received by: Miguel A Flores		Date: 3/9/2023	Time: 08:41	LAB USE ONLY	
Relinquished by: Miguel A Flores		Date: 3/9/2023	Time: 08:41	Received by: Miguel A Flores		Date: 3/9/2023	Time: 08:41	LAB USE ONLY	

ORIGINAL COPY

LAB USE ONLY		REMARKS:	
Sample Temperature		Standard TAT	
RUSH: Same Day 24 hr 48 hr 72 hr			
Rush Charges Authorized			
Special Report Limits or TRRP Report			

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 W Wall Street, Ste 1000
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Page 4 of 4

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	
Invoice to: Chevron Attn: Amy Barnhill		Sampler Signature: Miguel A. Flores	
Receiving Laboratory: Eurofins		Comments:	
LAB # (LAB USE ONLY)		SAMPLE IDENTIFICATION	
AH-6 (2-2.5')		3/9/2023	
AH-6 (3-3.5')		3/9/2023	
AH-7 (0-1')		3/9/2023	
AH-7 (1-1.5')		3/9/2023	
AH-7 (2-2.5')		3/9/2023	
AH-7 (3-3.5')		3/9/2023	
AH-7 (4-4.5')		3/9/2023	
Relinquished by: Miguel A Flores		Received by: [Signature]	
Date: [Blank]		Date: 03-10-23 8:05	
Relinquished by: [Signature]		Received by: [Signature]	
Date: [Blank]		Date: 3-10-23 0841	

ANALYSIS REQUEST
(Circle or Specify Method No.)

[illegible]

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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: 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	

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	

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

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

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

Printed Name: _____ Title: _____
Signature: Amy Blum Date: _____
email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 04/20/2023

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

Signature: Robert Hamlet Date: 9/11/2023

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

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

CONDITIONS

Action 209459

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 209459
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. This release will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule. Samples must be analyzed for all constituents listed in Table 1 of 19.15.29.12 NMAC. Floor samples will need to be fully delineated. The release area will need confirmation sidewall samples representing no more than 200 ft2. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. If groundwater is exposed during excavation (test for chemistry including major cations and anions). The work will need to occur in 90 days after the work plan has been approved.	9/11/2023