Page 1 of 197

Incident ID	NAPP2118258685
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

✓ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC									
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)										
☑ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)										
✓ Description of remediation activities										
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rerhuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the OP Printed Name: Todd Wells	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially notitions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete. Title: Environmental Specialist									
Signature: Todd Wells	Date: <u>9/3/21</u>									
email: Todd_Wells@eogresources.com	Telephone: (432) 686-3613									
OCD Only										
Received by: Chad Hensley	Date:									
remediate contamination that poses a threat to groundwater, surface a party of compliance with any other federal, state, or local laws and/o	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.									
Closure Approved by:	Date: 10/04/2021									
Printed Name: Chad Hensley	Title: Environmental Specialist Advanced									

SITE INFORMATION													
Report Type: Closure Report NAPP2118258685													
General Site Info	ormation:												
Site:		Ophelia Riser											
Company:		EOG Resource											
Section, Townsh	nip and Range	Unit L	Unit L Sec. 26 T 26S R 33E										
Lease Number:													
County:		Lea County											
GPS:			32.016839			-103.5	550998						
Surface Owner:		Private											
Mineral Owner:													
Directions:						2 and follow	for 3.88 miles. Turn right						
		onto lease road. I	Follow for 2.06 mi	lies to the spili	location.								
			1										
Release Data:													
Date Released:		6/8/2021											
Type Release:		Produced Wate	r										
Source of Contan	nination:	Lay Flat Reuse											
Fluid Released:		350 bbl water											
Fluids Recovered	<i>l</i> :	25 bbl water											
Official Commur	nication:												
Name:	Todd Wells				Clair Gonzal	les							
Company:	EOG Resources				Tetra Tech								
Address:	5509 Champions	Dr.			901 W. Wall	St.							
					Ste 100								
City:	Midland, Texas, 7	9706			Midland, Tex	xas, 79701							
Phone number:	(432) 686-3613				(432) 682-45	559							
_	(102) 000 0010												

Site Characterization	
Depth to Groundwater:	80.71' Below Surface
Karst Potential:	Low

clair.gonzales@tetratech.com

Recommended R	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					

Todd Wells@eogresources.com

Fax:

Email:



September 1, 2021

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

Re: Closure Report for the EOG Resources, Ophelia Riser, Unit L, Section 26, Township 26 South, Range 33 East, Lea County, New Mexico.

NAPP2118258685

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess and remediate a release that occurred at the EOG Resources, Ophelia Riser, Unit L, Section 26, Township 26 South, Range 33 East, Lea County, New Mexico (Site). The site coordinates are 32.016839°, -103.550998°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the release was discovered on June 8, 2021, and released approximately 350 barrels of produced water due to a reuse water line that developed a hole. Approximately 25 barrels of produced water were recovered. The release occurred on a pipeline ROW and flowed onto a pasture, impacting an area measuring approximately 585' X 50'. The C-141 form is included in Appendix A.

Site Characterization

A site characterization was performed for the site and no lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. Additionally, the site is located in a low karst potential area. The nearest well is listed on the USGS National Water Information System is in section 27 approximately 0.52 miles from the site, and has a reported depth to groundwater of 80.17' below surface. Site characterization information is found in Appendix B.

Regulatory

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine

etra Tech

901 West Wall Street, Suite 100, Midland, TX 79701

Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com



recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL for TPH is 100 mg/kg (GRO + DRO + ORO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 600 mg/kg.

Soil Assessment and Analytical Results

On July 28, 2021, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of eight (8) auger holes (AH-1 through AH-8) were installed in the release footprint with depths ranging from surface to 4.5' below surface. Additionally, eight (8) hoizontals were installed to horizontally delineate the spill footprint. Selected samples were submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The sample locations are shown in Figure 3.

Referring to Table 1, none of the samples reported benzene, total BTEX, or TPH concentrations above the RRALs. However, the areas of auger holes (AH-3, AH-7, and AH-8) reported chloride concentrations above the 600 mg/kg threshold, with concentrations ranging from 755 mg/kg to 1,480 mg/kg, at depths ranging from surface to 4.5' below surface. Additionally, all horizontal samples reported chloride concentrations below the RRALs. However, vertical delineation was not found in the area of auger hole (AH-3).

Remediation and Reclamation Activities

Tetra Tech personnel were onsite August 16, 2021 through August 30, 2021, to supervise the remediation and collect confirmation samples. The impacted areas were excavated to depths ranging from 2.0' below surface and 6.0' below surface, as shown on Figure 4 and Table 2.

Confirmation bottom hole and sidewall samples were collected every 200 square feet, a total of 30 bottom hole samples (BH-1 through BH-27 and BH-1 (Road) through BH-3 (Road)) and 33 sidewall samples (SW-1 through SW-29 and SW-1 (Road) through SW-4 (Road)) were collected to ensure proper removal of the impacted soils. The samples were submitted to the laboratory to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method 300.0. The sampling results are summarized in Table 2. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The excavation depths, and sample locations are shown in Figure 4.

Referring to Table 2, all final confirmation samples collected showed benzene, total BTEX, TPH, and chloride concentrations below the RRALs.

Approximately 949 cubic yards of material was excavated and transported offsite for proper disposal. The areas were then backfilled with clean material to surface grade.



Conclusion

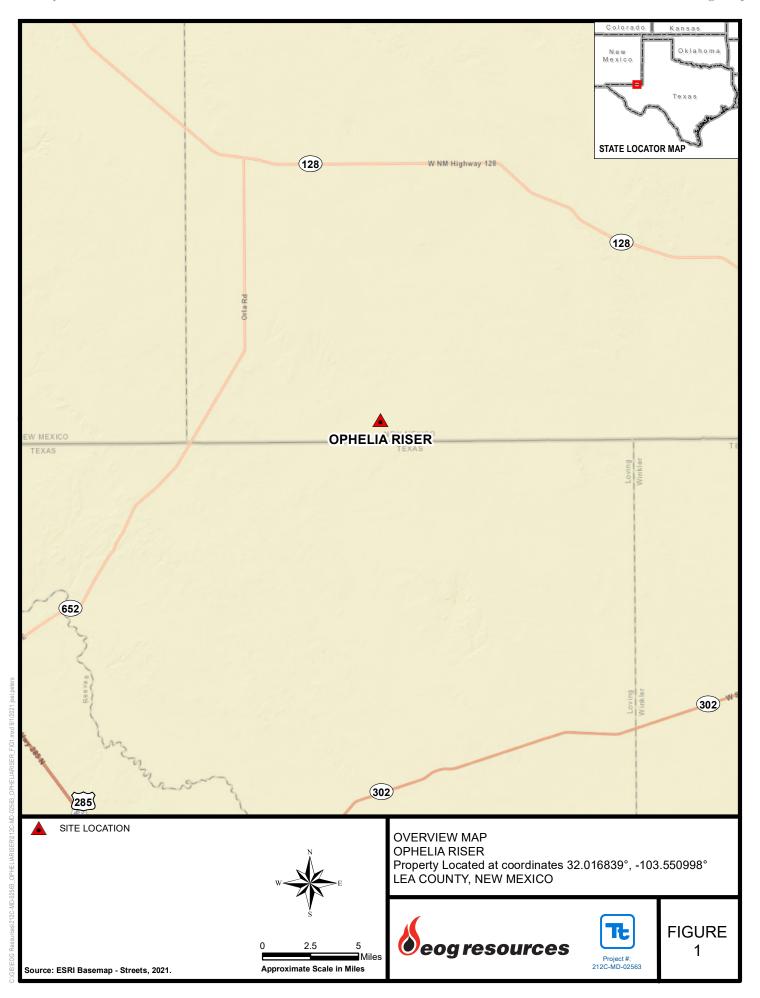
Based on the laboratory results, remediation activities performed, EOG requests closure of this spill issue. The final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

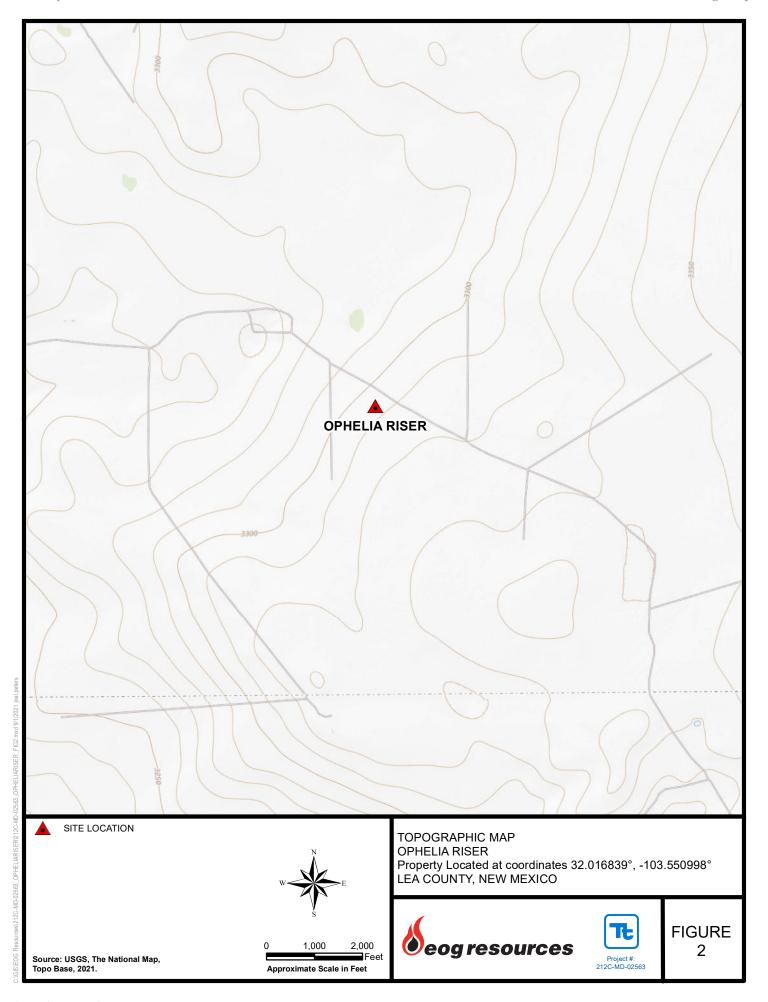
Respectfully submitted, TETRA TECH

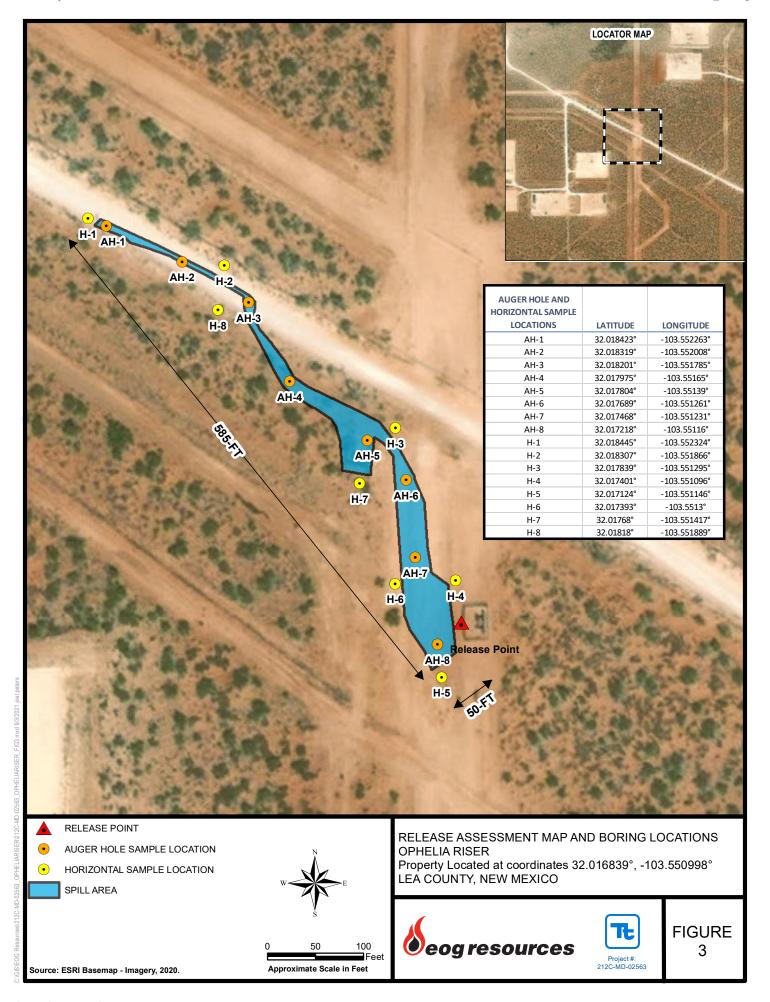
Brittany Long, Project Manager Clair Gonzales, P.G. Senior Project Manager



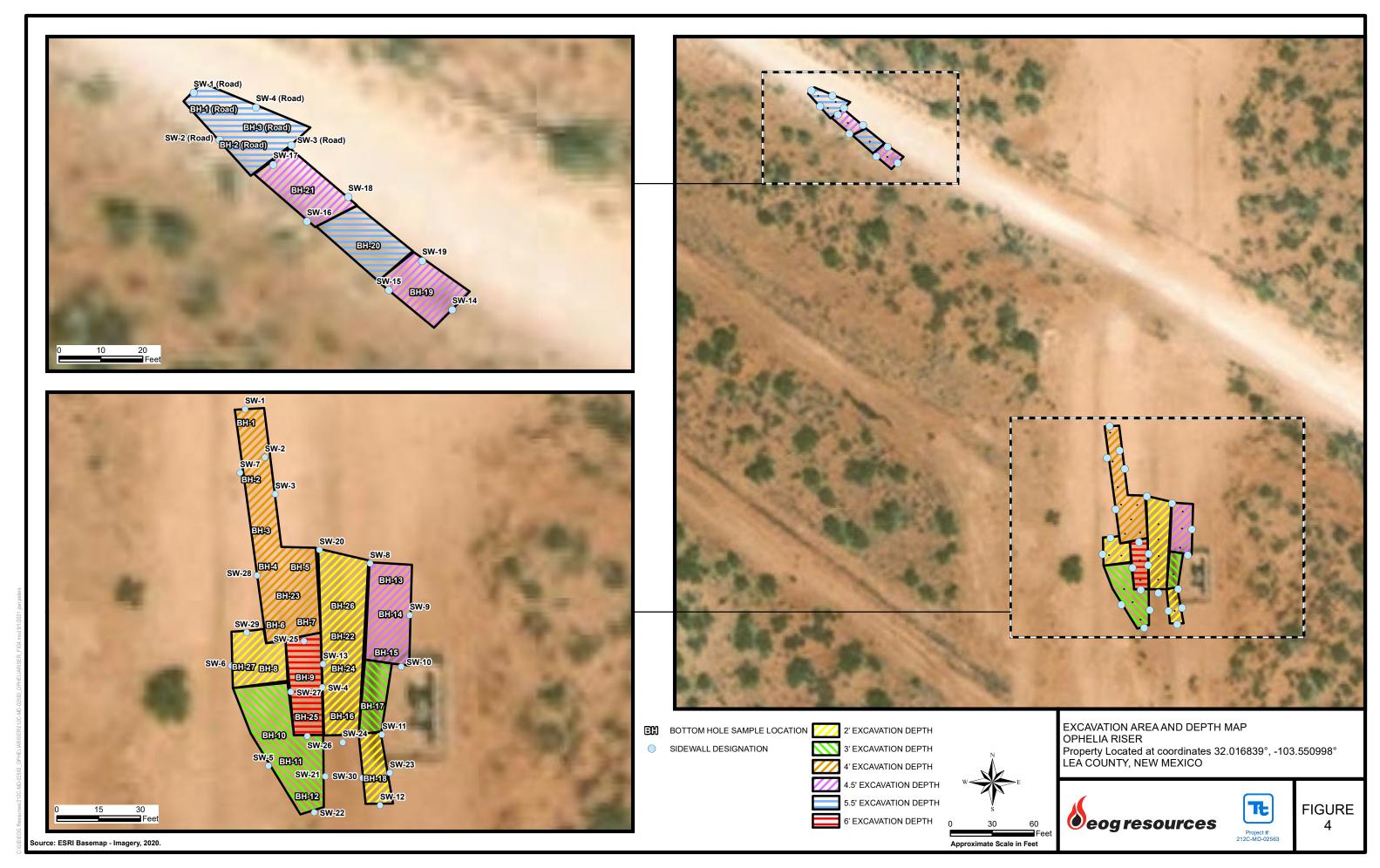
Figures







Received by OCD: 9/3/2021 11:16:14 AM





Tables

Table 1 EOG Resources Ophelia Riser Spill Lea County, New Mexico

Released to Imaging: 10/4/2021 2:29:57 PM

Sample ID Sample I		Excavtion	Soil	Status		TPH (m	ıg/kg)		Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride
	•	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	` 0 0/	, o o,	(mg/kg)		, , ,	(mg/kg)
	7/28/2021	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	7.90
	7/28/2021	1-1.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	7.22
AH-1	7/28/2021	2-2.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	12.0
	7/28/2021	3-3.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	34.7
	7/28/2021	4-4.5'	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	33.8
	7/28/2021	0-1	Х	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	11.2
	7/28/2021	1-1.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	10.4
AH-2	7/28/2021	2-2.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	< 0.00401	<0.00401	12.2
	7/28/2021	3-3.5	Χ	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	64.1
	7/28/2021	4-4.5'	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	41.2
	7/28/2021	0-1	-	Х	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	64.4
	7/28/2021	1-1.5	-	Х	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	< 0.00403	<0.00403	27.2
AH-3	7/28/2021	2-2.5	-	Х	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	57.3
	7/28/2021	3-3.5	-	Χ	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	< 0.00402	<0.00402	255
	7/28/2021	4-4.5'	-	X	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	< 0.00399	1,020
	7/28/2021	0-1	Х	- 1	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	11.4
	7/28/2021	1-1.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	12.0
AH-4	7/28/2021	2-2.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	< 0.00399	< 0.00399	22.6
	7/28/2021	3-3.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	95.3
	7/28/2021	4-4.5'	Χ	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	161
	7/28/2021	0-1	Х	- 1	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	8.95
	7/28/2021	1-1.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	< 0.00399	< 0.00399	14.5
AH-5	7/28/2021	2-2.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	< 0.00199	<0.00398	<0.00398	54.1
	7/28/2021	3-3.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	< 0.00200	<0.00200	< 0.00399	<0.00399	222
	7/28/2021	4-4.5'	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	210
	7/28/2021	0-1	Х	- 1	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	8.65
	7/28/2021	1-1.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	7.58
AH-6	7/28/2021	2-2.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	18.5
	7/28/2021	3-3.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	< 0.00399	<0.00399	16.4
	7/28/2021	4-4.5'	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	16.0
	7/28/2021	0-1	-	Х	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	< 0.00199	<0.00398	<0.00398	38.8
	7/28/2021	1-1.5	-	X	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	755
AH-7	7/28/2021	2-2.5	-	X	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,460
	7/28/2021	3-3.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	< 0.00397	153
	7/28/2021	4-4.5'	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	36.0
	7/28/2021	0-1	-	Х	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	86.7
	7/28/2021	1-1.5	-	X	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00200	<0.00399	<0.00399	1,480
AH-8	7/28/2021	2-2.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	395
	7/28/2021	3-3.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	279
	7/28/2021	4-4.5'	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	51.3

Table 1 **EOG Resources** Ophelia Riser Spill Lea County, New Mexico

								, ,						
Sample ID	Sample Date	Excavtion Depth (ft)	Depth (ft)						Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total			(99)			(gg)
H-1	7/28/2021	0-0.5	Х	-	<50.0	<50.0	<50.0	<50.0	< 0.00199	0.00789	< 0.00199	0.0174	0.0253	8.81
H-2	7/28/2021	0-0.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	35.3
H-3	7/28/2021	0-0.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	45.2
H-4	7/28/2021	0-0.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	10.8
H-5	7/28/2021	0-0.5	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	8.38
H-6	7/28/2021	0-0.5	Х	-	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	33.6
H-7	7/28/2021	0-0.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	0.00360	<0.00198	<0.00397	<0.00397	7.66
H-8	7/28/2021	0-0.5	Х	-	<50.0	<50.0	<50.0	<50.0	0.00264	<0.00198	0.00302	<0.00397	0.00894	19.2

Not Analyzed

Exceeds Thresholds

Table 2 EOG Ophelia Riser Release Lea County, New Mexico

Samula ID	Sample Date	Sample	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	DRO	GRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-1	8/27/2021	4.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
BH-2	8/27/2021	4.0'	Χ	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
BH-3	8/27/2021	4.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
BH-4	8/27/2021	4.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
BH-5	8/27/2021	4.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
BH-6	8/27/2021	4.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
BH-7	8/27/2021	4.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
BH-8	8/25/2021	2.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
BH-9	8/27/2021	6.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
BH-10	8/27/2021	3.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
BH-11	8/27/2021	3.5'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
BH-12	8/27/2021	3.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
BH-13	8/27/2021	4.5'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
BH-14	8/27/2021	4.5'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
BH-15	8/27/2021	4.5'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
BH-16	8/25/2021	2.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
BH-17	8/25/2021	3.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
BH-18	8/25/2021	2.0'	Χ	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
BH-19	8/25/2021	4.5'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
BH-20	8/25/2021	5.5'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	464
BH-21	8/25/2021	4.5'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
BH-22	8/25/2021	2.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
BH-23	8/30/2021	4.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128

Received by OCD: 9/3/2021 11:16:14 AM

Table 2 EOG Ophelia Riser Release Lea County, New Mexico

Comple ID	Samula Data	Sample	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	DRO	GRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-24	8/30/2021	2.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
BH-25	8/30/2021	6.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
BH-26	8/30/2021	2.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
BH-27	8/30/2021	2.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-1	8/25/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
SW-2	8/25/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	304
SW-3	8/25/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-4	8/27/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-5	8/27/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-6	8/27/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-7	8/27/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-8	8/25/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-9	8/25/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-10	8/25/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-11	8/25/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-12	8/25/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-13	8/27/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-14	8/25/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-15	8/25/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
SW-16	8/25/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-17	8/25/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-18	8/25/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-19	8/25/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-20	8/30/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-21	8/30/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-22	8/30/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-23	8/30/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144

Page 16 of 197

Table 2 EOG Ophelia Riser Release Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
		Depth (It)	In-Situ	Removed	DRO	GRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SW-24	8/30/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-25	8/30/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-26	8/30/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-27	8/30/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-28	8/30/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-29	8/30/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
							Road Area	ı						
BH-1 (Road)	8/20/2021	5.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
BH-2 (Road)	8/20/2021	5.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
BH-3 (Road)	8/20/2021	5.0'	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-1 (Road)	8/20/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-2 (Road)	8/20/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	528
SW-3 (Road)	8/20/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-4 (Road)	8/20/2021	-	Х	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128

(-) Not Analyzed



Photographic Documentation

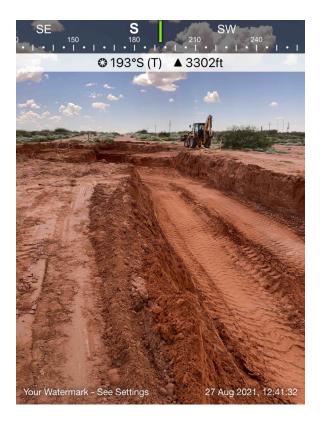
EOG Resources Ophelia Riser Lea County, New Mexico







View of Remediation Activities – View Northwest



View of Remediation Activities – View South

EOG Resources Ophelia Riser Lea County, New Mexico







View of Remediation Activities - View North

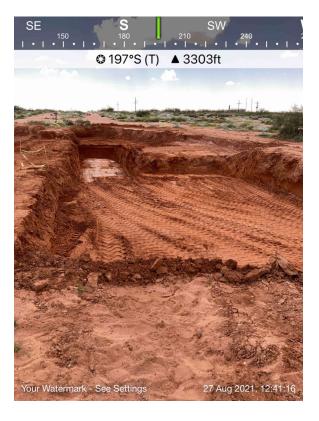


View of Remediation Activities – View Northwest

EOG Resources Ophelia Riser Lea County, New Mexico







View of Remediation Activities - View South



View of Remediation Activities - View South



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	NAPP2118258685
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party EOG	Resources		OGRID 7	7377					
Contact Nam	ne Todd We	ells			Contact To	elephone (432) 686-3613				
Contact ema	il Todd_We	ells@eogresources	.com		Incident #	(assigned by OCD) NAPP2118258685				
Contact mail 79706	ing address	5509 Champions	Drive Midland, T	Ϋ́X						
			Location	of R	Release S	ource				
Latitude 32.016839° Longitude -103.550998°										
			(NAD 83 in de	ecimal de	grees to 5 decir					
Site Name C	Ophelia Riser	r			Site Type	Lay Flat Reuse Water Line				
Date Release	Discovered	6/8/21			API# (if app	plicable)				
TT '. T	I a .:	T 1:			- C	· · · · · · · · · · · · · · · · · · ·				
Unit Letter	Section	Township	Range	Τ	Cour	nty				
L	26	26S	33E	Lea						
Surface Owner	r: State	Federal Tı	ribal 🛚 Private (Name:	Oliver Kie	ehne <u>)</u>				
			Nature and	d Vo	lume of 1	Release				
	Materia	l(s) Released (Select al	Il that apply and attach	n calcula	tions or specific	e justification for the volumes provided below)				
Crude Oil		Volume Release				Volume Recovered (bbls)				
Produced	Water	Volume Release	ed (bbls) 350			Volume Recovered (bbls) 25				
		Is the concentrate produced water	tion of dissolved o >10,000 mg/l?	chlorid	e in the	⊠ Yes □ No				
Condensa	ite	Volume Release				Volume Recovered (bbls)				
Natural G	as	Volume Release	d (Mcf)			Volume Recovered (Mcf)				
Other (de	scribe)	Volume/Weight	Released (provid)	Volume/Weight Recovered (provide units)					
		l ny flat reuse water used on the ROW a				ion at the Ophelia Riser. Approximately 350 bbls of ered.				

Received by OCD: 9/3/2021 11:16:14^{AM} State of New Mexico
Page 2 Oil Conservation Division

	Pag@ 2 3	of 197
Incident ID	PP2118258685	

Incident ID	NAPP2118258685
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon	nsible party consider this a major release? More than 25 bbls.
19.15.29.7(A) NMAC?		
⊠ Yes □ No		
If YES, was immediate no to the District 1 Spills Inb		m? When and by what means (phone, email, etc)? Email notification
1		
		ognanga
	Initial Ro	esponse
The responsible p	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ive been contained via the use of berms or d	likes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	why:
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence r	emediation 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 blease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
		fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have
failed to adequately investigated	ate and remediate contamination that pose a thre	at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.	THE 141 report does not remove the operator of	responsionity for compliance with any other rederat, state, or local taws
Printed Name:Todd	Wells Title:	Environmental Specialist
Signature: Toda	d Wells	Date:
email:Todd V	Wells@eogresources.com	Telephone: (432) 686-3613
OCD Only		
-	a Marcus	E/E/2021
Received by:Ramona	a Marcus	Date:

Received by OCD: 9/3/2021 11:16:14 AM Form C-141 State of New Mexico
Page 3 Oil Conservation Division

	Page 24 of 197
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.

Received by OCD: 9/3/2021 11:16:14 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 25 of 197
Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:	
Signature: Todd Wells	
email:	Telephone:
OCD Only	
Received by:	Date:

Received by OCD: 9/3/2021 11:16:14 AM Form C-141 State of New Mexico Page 6 Oil Conservation Division

	Page 26 of 197
Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC				
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)				
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)			
☐ Description of remediation activities				
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the O	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially notitions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.			
Printed Name:				
Signature: Todd Wells	Date:			
email:	Telephone:			
OCD Only				
Received by:	Date:			
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.			
Closure Approved by:	Date:			
Printed Name:	Title:			



Appendix B

Site Characterization Documents



Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 320056103333501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320056103333501 26S.33E.27.21132

Lea County, New Mexico

Latitude 32°00'56", Longitude 103°33'35" NAD27

Land-surface elevation 3,273 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

- Carpar Iollian
Table of data
<u>Tab-separated data</u>
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 measu
1970-12-07		D	62610		3195.49	NGVD29	1	Z		
1970-12-07		D	62611		3197.07	NAVD88	1	Z		
1970-12-07		D	72019	75.93			1	Z		
1976-01-08		D	62610		3195.65	NGVD29	1	Z		
1976-01-08		D	62611		3197.23	NAVD88	1	Z		
1976-01-08		D	72019	75.77			1	Z		
1981-03-25		D	62610		3191.25	NGVD29	1	Z		
1981-03-25		D	62611		3192.83	NAVD88	1	Z		
1981-03-25		D	72019	80.17			1	Z		

Exp	lar	nati	ion

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
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	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site **Automated retrievals** <u>Help</u> Data Tips **Explanation of terms** Subscribe for system changes **News**

Accessibility

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels

URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2021-08-02 17:57:43 EDT

0.28 0.24 nadww01

USA.gov



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

C 02270 1 1 2 27 26S 33E

636063 3543722

Driller License: 208 Driller Company: VAN NOY, W.L.

Driller Name: UNKNOWN

Drill Start Date: 08/28/1992 **Drill Finish Date:** 12/31/1910 **Plug Date:**

Log File Date:10/28/1992PCW Rcv Date:Source:ShallowPump Type:Pipe Discharge Size:Estimated Yield:15 GPMCasing Size:8.00Depth Well:150 feetDepth Water:125 feet

Water Bearing Stratifications: Top Bottom Description

225 265 Sandstone/Gravel/Conglomerate

Casing Perforations: Top Bottom
205 265

Meter Number: 16561 Meter Make: MASTERMETER

Meter Serial Number:8112517Meter Multiplier:100.0000Number of Dials:6Meter Type:Diversion

Unit of Measure:GallonsReturn Flow Percent:Usage Multiplier:Reading Frequency:

Meter Readings (in Acre-Feet)

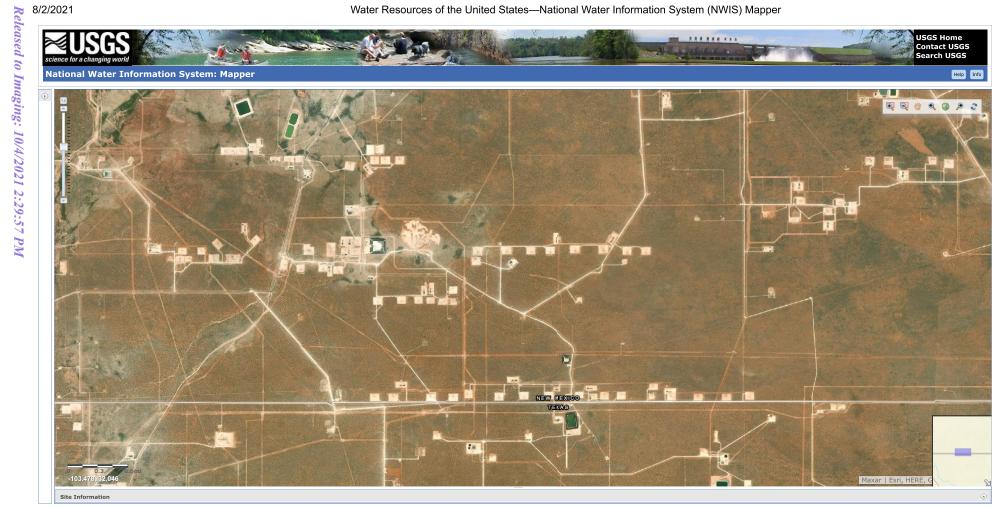
Read Date	Year	Mtr Reading	Flag	g Rdr Comment	Mtr Amoun
04/01/2014	2014	132970	A	RPT	(
07/01/2014	2014	145195	A	RPT	3.752
10/01/2014	2014	153126	A	RPT	2.434
12/31/2014	2014	153126	A	RPT	(
02/01/2015	2015	153126	A	RPT	(
03/01/2015	2015	153126	A	RPT	(
04/01/2015	2015	153126	A	RPT	(
05/01/2015	2015	153126	A	RPT	(
05/31/2015	2015	153126	A	RPT	(
07/01/2015	2015	153126	A	RPT	(
08/01/2015	2015	153126	A	RPT	(
10/01/2015	2015	153216	A	RPT	0.023
**YTD Met	er Amour	its: Year		Amount	
		2014		6.186	

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, or suitability for any particular purpose of the data.

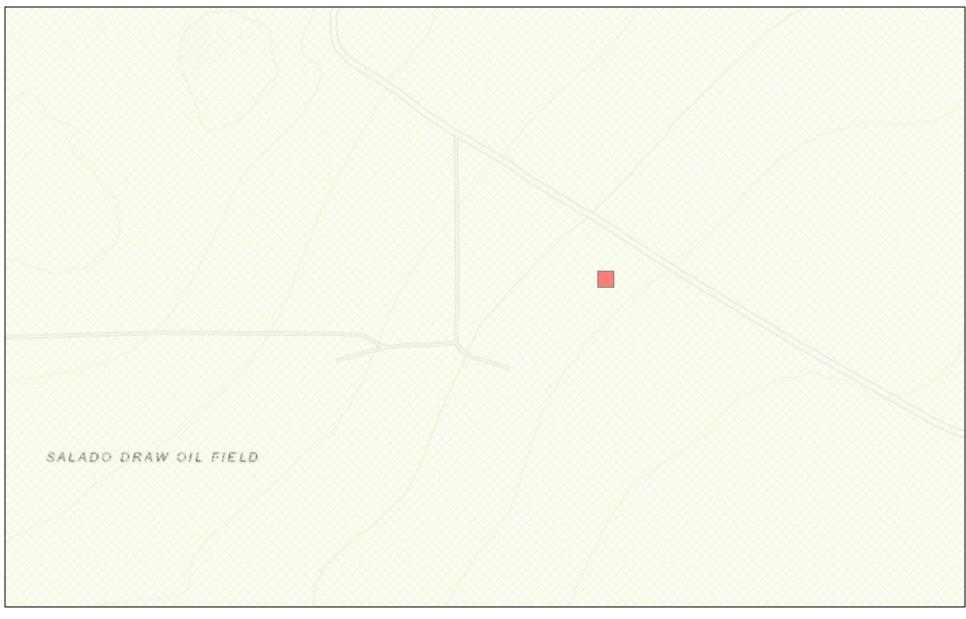
0.028

2015

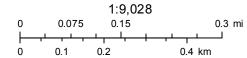




New Mexico NFHL Data



August 2, 2021



FEMA Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,







Google Earth

1000 ft

Water Well Data Average Depth to Groundwater (ft) EOG Resources Ophelia Riser Spill Lea County, New Mexico

	25 8	South	;	32 Eas	t
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
	290				
	26 5	South	;	32 Eas	t
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	1/1	13

	25 Sc	outh	33		
6	5	4	3 172	2	1
	118				
7	8	9	10	11	12
				140	200
18	17	16	15	14	13
					185
19	20	21	22	23	24
	200	120			
30	29	28	27	26	25
			125	110	
31	32	33	34	35	36
190					

	25 Sc	outh	34	East	
6	5	4	3	2	1 260
7	8	9	10	11	12
18	17	16	15 135	14	13
19	20	21	22	23	24 300
30	29 129 50	28	27	26	25
31	32	33	34	35	36

	26 So	uth	32	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21 333 180	22	23	24
30	29	28	27	26	25
31 295	32	33	34	35	36

	26 Sc	outh	33	East	
6	5	4	3 180	2	1
7	8	9 106	10 124	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27 80	26	25
31	32	33	34	35	36

	26 Sc	outh	34		
6 130	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- 90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6) Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34 NMOCD Groundwater Data
- 123 Tetra Tech installed temporary wells and field water level
- 143 NMOCD Groundwater map well location



Appendix C

Laboratory Reports



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-4537-1

Laboratory Sample Delivery Group: Lea County, New Mexico Client Project/Site: Ophelia Riser Spill

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Brittany Long

MRAMER

Authorized for release by: 8/2/2021 10:53:19 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 10/4/2021 2:29:57 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

3

5

6

2 2

9

11

12

4 /

Client: Tetra Tech, Inc. Project/Site: Ophelia Riser Spill Laboratory Job ID: 880-4537-1 SDG: Lea County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	37
QC Sample Results	41
QC Association Summary	55
Lab Chronicle	64
Certification Summary	76
Method Summary	77
Sample Summary	78
Chain of Custody	79
Receipt Checklists	82

3

4

6

8

9

11

12

13

14

Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 880-4537-1

Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico

2

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

 S1+
 Surrogate recovery exceeds control limits, high biased.

 U
 Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Description

U

Indicates the analyte was analyzed for but not detected.

HPLC/IC

F1 MS and/or MSD recovery exceeds control limits.

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.

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

Job ID: 880-4537-1

Case Narrative

Client: Tetra Tech, Inc. Project/Site: Ophelia Riser Spill SDG: Lea County, New Mexico

Job ID: 880-4537-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-4537-1

Receipt

The samples were received on 7/30/2021 1:28 PM. 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 2.5°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: AH-2 (2-2.5') (880-4537-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: AH-5 (1-1.5') (880-4537-22) and AH-5 (2-2.5') (880-4537-23). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Toluene The continuing calibration verification (CCV) associated with batch 880-5899 recovered above the upper control limit for Toluene The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

GC Semi VOA

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

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

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-4537-1 SDG: Lea County, New Mexico Project/Site: Ophelia Riser Spill

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Oll Range Organics (Over C28-C36)

Method: 300.0 - Anions, Ion Chromatography - Soluble

Total TPH

Surrogate

o-Terphenyl

Analyte

Chloride

(GRO)-C6-C10

1-Chlorooctane

Lab Sample ID: 880-4537-1

07/31/21 22:31

07/31/21 22:31

Analyzed

07/31/21 22:31

07/31/21 22:31

Analyzed

08/01/21 00:48

Matrix: Solid

alyzed	Dil Fac	5
21 21:01	1	
21 21:01	1	
21 21:01	1	

Dil Fac

Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/21 13:58	07/30/21 21:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 13:58	07/30/21 21:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 13:58	07/30/21 21:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 13:58	07/30/21 21:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 13:58	07/30/21 21:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 13:58	07/30/21 21:01	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 13:58	07/30/21 21:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				07/30/21 13:58	07/30/21 21:01	1
1,4-Difluorobenzene (Surr)	85		70 - 130				07/30/21 13:58	07/30/21 21:01	1
- Method: 8015B NM - Diesel R	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/31/21 11:14	07/31/21 22:31	1
(GRO)-C6-C10									
(3.13) 33 3.3									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/31/21 11:14	07/31/21 22:31	1

50.0

50.0

Limits

70 - 130

70 - 130

mg/Kg

mg/Kg

MDL Unit

mg/Kg

07/31/21 11:14

07/31/21 11:14

Prepared

07/31/21 11:14

07/31/21 11:14

Prepared

D

<50.0 U

<50.0 U

%Recovery Qualifier

95

99

7.90

Result Qualifier

Client Sample ID: AH-1 (1-1.5') Lab Sample ID: 880-4537-2 Date Collected: 07/28/21 00:00 Matrix: Solid Date Received: 07/30/21 13:28

RL

5.00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 21:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 21:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 21:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 13:58	07/30/21 21:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 21:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/21 13:58	07/30/21 21:26	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 13:58	07/30/21 21:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				07/30/21 13:58	07/30/21 21:26	1
1,4-Difluorobenzene (Surr)	92		70 - 130				07/30/21 13:58	07/30/21 21:26	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Job ID: 880-4537-1 Project/Site: Ophelia Riser Spill SDG: Lea County, New Mexico

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

Client: Tetra Tech, Inc.

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/31/21 11:14	07/31/21 23:34	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 11:14	07/31/21 23:34	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 11:14	07/31/21 23:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Pre	epared	Analyzed	DII Fac
1-Chlorooctane	88	70 - 130	07/31/	/21 11:14	07/31/21 23:34	1
o-Terphenyl	88	70 - 130	07/31/	/21 11:14	07/31/21 23:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	7.22		4.98		mg/Kg			08/01/21 01:04	1

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

Date Collected: 07/28/21 00:00

Lab Sample ID: 880-4537-3

Matrix: Solid

Date Received: 07/30/21 13:28

Method: 8021B - Volatile Or	ganic Compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/21 13:58	07/30/21 21:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 13:58	07/30/21 21:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 13:58	07/30/21 21:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 13:58	07/30/21 21:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 13:58	07/30/21 21:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 13:58	07/30/21 21:51	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 13:58	07/30/21 21:51	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104	70 - 130	07/30/21 13:58	07/30/21 21:51	1
1,4-Difluorobenzene (Surr)	98	70 - 130	07/30/21 13:58	07/30/21 21:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)												
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/31/21 11:14	07/31/21 23:55	1			
(GRO)-C6-C10												
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/31/21 11:14	07/31/21 23:55	1			
C10-C28)												
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:14	07/31/21 23:55	1			
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:14	07/31/21 23:55	1			
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac			
1-Chlorooctane	93		70 - 130				07/31/21 11:14	07/31/21 23:55	1			
o-Terphenyl	97		70 ₋ 130				07/31/21 11:14	07/31/21 23:55	1			

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	12.0	4 96	ma/Ka			08/01/21 01:09	1	

Eurofins Xenco, Midland

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-4

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 22:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 22:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 22:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 13:58	07/30/21 22:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 22:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/21 13:58	07/30/21 22:16	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 13:58	07/30/21 22:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				07/30/21 13:58	07/30/21 22:16	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/21 13:58	07/30/21 22:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <50.0 U Gasoline Range Organics 50.0 mg/Kg 07/31/21 11:14 08/01/21 00:15 (GRO)-C6-C10 07/31/21 11:14 08/01/21 00:15 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 07/31/21 11:14 08/01/21 00:15 Total TPH 50.0 07/31/21 11:14 08/01/21 00:15 <50.0 U mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac

1-Chlorooctane	92	70 - 130	07/31/21 11:14	08/01/21 00:15	1
o-Terphenyl	101	70 - 130	07/31/21 11:14	08/01/21 00:15	1
Method: 200 0 Anione lon Chron	matagraphy Calubia				

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier MDL Unit RL D Analyte Prepared Analyzed Dil Fac Chloride 34.7 4.95 mg/Kg 08/01/21 01:15

Client Sample ID: AH-1 (4-4.5') Lab Sample ID: 880-4537-5 Date Collected: 07/28/21 00:00

Date Received: 07/30/21 13:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 22:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 22:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 22:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/21 13:58	07/30/21 22:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 22:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/21 13:58	07/30/21 22:41	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/30/21 13:58	07/30/21 22:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				07/30/21 13:58	07/30/21 22:41	1
1,4-Difluorobenzene (Surr)	103		70 - 130				07/30/21 13:58	07/30/21 22:41	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		07/31/21 11:14	08/01/21 00:36	1

Eurofins Xenco, Midland

Matrix: Solid

(GRO)-C6-C10

Job ID: 880-4537-1

Client: Tetra Tech, Inc. Project/Site: Ophelia Riser Spill SDG: Lea County, New Mexico

Lab Sample ID: 880-4537-5

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

08/01/21 01:20

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		07/31/21 11:14	08/01/21 00:36	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/31/21 11:14	08/01/21 00:36	1
Total TPH	<49.8	U	49.8		mg/Kg		07/31/21 11:14	08/01/21 00:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				07/31/21 11:14	08/01/21 00:36	1
o-Terphenyl	95		70 - 130				07/31/21 11:14	08/01/21 00:36	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	0 . ,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: AH-2 (0-1') Lab Sample ID: 880-4537-6 Date Collected: 07/28/21 00:00

5.05

mg/Kg

33.8

Date Received: 07/30/21 13:28

Chloride

Matrix: Solid

Method: 8021B - Volatile Org	ganic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 23:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 23:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 23:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 13:58	07/30/21 23:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 23:06	1
Xylenes, Total	< 0.00399	U	0.00399		mg/Kg		07/30/21 13:58	07/30/21 23:06	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 13:58	07/30/21 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	07/30/21 13:58	07/30/21 23:06	1
1,4-Difluorobenzene (Surr)	100		70 - 130	07/30/21 13:58	07/30/21 23:06	1

Method: 8015B NM -	Diesel Range	Organics	(DRO) (G	SC)
		_		

Method. 00 130 MM - Diesei Kang	wethod: 00 13b NW - bleser Range Organics (bRO) (GO)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		07/31/21 11:14	08/01/21 00:57	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		07/31/21 11:14	08/01/21 00:57	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/31/21 11:14	08/01/21 00:57	1
Total TPH	<49.7	U	49.7		mg/Kg		07/31/21 11:14	08/01/21 00:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				07/31/21 11:14	08/01/21 00:57	1
o-Terphenyl	90		70 - 130				07/31/21 11:14	08/01/21 00:57	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.2	4.98	mg/Kg			08/01/21 01:36	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-4537-1 Project/Site: Ophelia Riser Spill SDG: Lea County, New Mexico

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-7

08/01/21 01:17

08/01/21 01:17

07/31/21 11:14

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 23:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 23:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 23:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/21 13:58	07/30/21 23:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 23:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/21 13:58	07/30/21 23:31	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/30/21 13:58	07/30/21 23:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				07/30/21 13:58	07/30/21 23:31	1
1,4-Difluorobenzene (Surr)	101		70 - 130				07/30/21 13:58	07/30/21 23:31	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <49.9 U Gasoline Range Organics 49.9 mg/Kg 07/31/21 11:14 08/01/21 01:17 (GRO)-C6-C10 08/01/21 01:17 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 07/31/21 11:14 C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 07/31/21 11:14 08/01/21 01:17 Total TPH 07/31/21 11:14 08/01/21 01:17 <49.9 U 49.9 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 07/31/21 11:14

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.4		5.00		mg/Kg			08/01/21 01:42	1

70 - 130

89

96

Client Sample ID: AH-2 (2-2.5') Lab Sample ID: 880-4537-8 Date Collected: 07/28/21 00:00 Matrix: Solid

Date Received: 07/30/21 13:28

1-Chlorooctane

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 23:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 23:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 23:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/30/21 13:58	07/30/21 23:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 23:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/30/21 13:58	07/30/21 23:56	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/30/21 13:58	07/30/21 23:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				07/30/21 13:58	07/30/21 23:56	1
1,4-Difluorobenzene (Surr)	81		70 - 130				07/30/21 13:58	07/30/21 23:56	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 01:38	1

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

Lab Sample ID: 880-4537-8 Date Collected: 07/28/21 00:00 Matrix: Solid Date Received: 07/30/21 13:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 01:38	1
C10-C28) OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 01:38	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				07/31/21 11:14	08/01/21 01:38	1
o-Terphenyl	91		70 - 130				07/31/21 11:14	08/01/21 01:38	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: AH-2 (3-3.5') Lab Sample ID: 880-4537-9 Date Collected: 07/28/21 00:00 Matrix: Solid

4.95

mg/Kg

12.2

Date Received: 07/30/21 13:28

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 00:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 00:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 00:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 13:58	07/31/21 00:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 00:21	1
Xylenes, Total	< 0.00399	U	0.00399		mg/Kg		07/30/21 13:58	07/31/21 00:21	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 13:58	07/31/21 00:21	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101	70 - 130	07/30/21 13:58	07/31/21 00:21	1
1,4-Difluorobenzene (Surr)	97	70 - 130	07/30/21 13:58	07/31/21 00:21	1

1,4-Diffuorobenzene (Surr)	97		70 - 130				07/30/21 13:58	07/31/21 00:21	7
- Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 01:59	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 01:59	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 01:59	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 01:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				07/31/21 11:14	08/01/21 01:59	1
o-Terphenyl	99		70 - 130				07/31/21 11:14	08/01/21 01:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	64.1	5.04	mg/Kg			08/01/21 01:52	1		

Eurofins Xenco, Midland

08/01/21 01:47

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

o-Terphenyl

Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-10

07/31/21 11:14

08/01/21 02:20

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 00:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 00:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 00:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/30/21 13:58	07/31/21 00:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 00:46	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/30/21 13:58	07/31/21 00:46	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/30/21 13:58	07/31/21 00:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				07/30/21 13:58	07/31/21 00:46	1
1,4-Difluorobenzene (Surr)	100		70 - 130				07/30/21 13:58	07/31/21 00:46	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <49.9 U Gasoline Range Organics 49.9 07/31/21 11:14 08/01/21 02:20 mg/Kg (GRO)-C6-C10 mg/Kg 07/31/21 11:14 08/01/21 02:20 Diesel Range Organics (Over <49.9 U 49.9 C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 07/31/21 11:14 08/01/21 02:20 Total TPH 07/31/21 11:14 08/01/21 02:20 <49.9 U 49.9 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 91 70 - 130 07/31/21 11:14 08/01/21 02:20

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.2		4.98		mg/Kg			08/01/21 01:58	1

70 - 130

100

Client Sample ID: AH-3 (0-1') Lab Sample ID: 880-4537-11 Date Collected: 07/28/21 00:00 **Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/30/21 13:58	07/31/21 02:27	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/30/21 13:58	07/31/21 02:27	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/30/21 13:58	07/31/21 02:27	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/30/21 13:58	07/31/21 02:27	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/30/21 13:58	07/31/21 02:27	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/30/21 13:58	07/31/21 02:27	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/30/21 13:58	07/31/21 02:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				07/30/21 13:58	07/31/21 02:27	1
1,4-Difluorobenzene (Surr)	82		70 - 130				07/30/21 13:58	07/31/21 02:27	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 03:01	1

(GRO)-C6-C10

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-11

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 03:01	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 03:01	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 03:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				07/31/21 11:14	08/01/21 03:01	1
o-Terphenyl	109		70 - 130				07/31/21 11:14	08/01/21 03:01	1

 Method: 300.0 - Anions, Ion Chromatography - Soluble

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 64.4
 4.95
 mg/Kg
 08/01/21 02:03
 1

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-12

Matrix: Solid

Method: 8021B - Volatile Org	anic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/30/21 13:58	07/31/21 02:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/30/21 13:58	07/31/21 02:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/30/21 13:58	07/31/21 02:52	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/30/21 13:58	07/31/21 02:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/30/21 13:58	07/31/21 02:52	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/30/21 13:58	07/31/21 02:52	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/30/21 13:58	07/31/21 02:52	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/30/21 13:58	07/31/21 02:52	1 1 1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	07/30/21 13:58	07/31/21 02:52	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/30/21 13:58	07/31/21 02:52	1

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

Michiga. 00 10D 14M - Dieser Itali	je Organies (D	110) (00)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 03:22	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 03:22	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 03:22	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 03:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				07/31/21 11:14	08/01/21 03:22	1
o-Terphenyl	98		70 ₋ 130				07/31/21 11:14	08/01/21 03:22	1

Method: 300.0 - Anions, Ion Chrom	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.2	5.04	mg/Kg			08/01/21 02:19	1

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-13

08/01/21 03:43

08/01/21 03:43

07/31/21 11:14

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/30/21 13:58	07/31/21 03:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/21 13:58	07/31/21 03:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/21 13:58	07/31/21 03:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/21 13:58	07/31/21 03:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/21 13:58	07/31/21 03:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/21 13:58	07/31/21 03:17	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/30/21 13:58	07/31/21 03:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				07/30/21 13:58	07/31/21 03:17	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/21 13:58	07/31/21 03:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <49.9 U Gasoline Range Organics 49.9 mg/Kg 07/31/21 11:14 08/01/21 03:43 (GRO)-C6-C10 08/01/21 03:43 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 07/31/21 11:14 C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 07/31/21 11:14 08/01/21 03:43 Total TPH 07/31/21 11:14 08/01/21 03:43 <49.9 U 49.9 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 07/31/21 11:14

Method: 300.0 - Anions, Ion Chror	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.3	5.02	ma/Ka			08/01/21 02:25	

70 - 130

93

101

Client Sample ID: AH-3 (3-3.5') Lab Sample ID: 880-4537-14 Date Collected: 07/28/21 00:00 Matrix: Solid

Date Received: 07/30/21 13:28

1-Chlorooctane

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/30/21 13:58	07/31/21 03:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/21 13:58	07/31/21 03:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/21 13:58	07/31/21 03:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/21 13:58	07/31/21 03:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/21 13:58	07/31/21 03:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/21 13:58	07/31/21 03:42	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/30/21 13:58	07/31/21 03:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				07/30/21 13:58	07/31/21 03:42	1
1,4-Difluorobenzene (Surr)	102		70 - 130				07/30/21 13:58	07/31/21 03:42	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/31/21 11:14	08/01/21 04:04	1

Job ID: 880-4537-1 SDG: Lea County, New Mexico

Project/Site: Ophelia Riser Spill

Lab Sample ID: 880-4537-14

08/01/21 02:41

07/31/21 04:07

07/30/21 13:58

Prepared

Matrix: Solid

Client Sample ID: AH-3 (3-3.5') Date Collected: 07/28/21 00:00

Date Received: 07/30/21 13:28

Client: Tetra Tech, Inc.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/31/21 11:14	08/01/21 04:04	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 11:14	08/01/21 04:04	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 11:14	08/01/21 04:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				07/31/21 11:14	08/01/21 04:04	1
o-Terphenyl -	99		70 - 130				07/31/21 11:14	08/01/21 04:04	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: AH-3 (4-4.5') Lab Sample ID: 880-4537-15

4.99

255

97

Result Qualifier

1020

Date Received: 07/30/21 13:28

1,4-Difluorobenzene (Surr)

Chloride

Date Collected: 07/28/21 00:00 **Matrix: Solid**

mg/Kg

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac RL Benzene <0.00200 Ū 0.00200 07/30/21 13:58 07/31/21 04:07 mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 07/30/21 13:58 07/31/21 04:07 Ethylbenzene <0.00200 U 0.00200 07/30/21 13:58 07/31/21 04:07 mg/Kg m-Xylene & p-Xylene <0.00399 U 0.00399 mg/Kg 07/30/21 13:58 07/31/21 04:07 o-Xylene <0.00200 U 0.00200 mg/Kg 07/30/21 13:58 07/31/21 04:07 Xylenes, Total <0.00399 U 0.00399 mg/Kg 07/30/21 13:58 07/31/21 04:07 Total BTEX <0.00399 U 0.00399 07/30/21 13:58 07/31/21 04:07 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 106 70 - 130 07/30/21 13:58 07/31/21 04:07

70 - 130

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/31/21 11:14	08/01/21 04:24	
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/31/21 11:14	08/01/21 04:24	
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 11:14	08/01/21 04:24	•
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 11:14	08/01/21 04:24	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	90		70 - 130				07/31/21 11:14	08/01/21 04:24	
o-Terphenyl	100		70 ₋ 130				07/31/21 11:14	08/01/21 04:24	

RL

5.00

MDL Unit

mg/Kg

Eurofins Xenco, Midland

Analyzed

08/01/21 02:46

Analyte

Chloride

Dil Fac

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-16

Matrix: Solid

Method: 8021B - Volatile Orga	nic Compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 04:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 04:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 04:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/21 13:58	07/31/21 04:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 04:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/21 13:58	07/31/21 04:32	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/30/21 13:58	07/31/21 04:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				07/30/21 13:58	07/31/21 04:32	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/21 13:58	07/31/21 04:32	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 04:45	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 04:45	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 04:45	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 04:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				07/31/21 11:14	08/01/21 04:45	1
o-Terphenyl	106		70 - 130				07/31/21 11:14	08/01/21 04:45	1

Method: 300.0 - Anions, Ion Chro	matography - S	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.4		4.98		mg/Kg			08/01/21 02:52	1

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

Date Collected: 07/28/21 00:00

Lab Sample ID: 880-4537-17

Matrix: Solid

Date Received: 07/30/21 13:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/21 13:58	07/31/21 04:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 13:58	07/31/21 04:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 13:58	07/31/21 04:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 13:58	07/31/21 04:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 13:58	07/31/21 04:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 13:58	07/31/21 04:57	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 13:58	07/31/21 04:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				07/30/21 13:58	07/31/21 04:57	1
1,4-Difluorobenzene (Surr)	98		70 - 130				07/30/21 13:58	07/31/21 04:57	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 05:06	1

Eurofins Xenco, Midland

(GRO)-C6-C10

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-17

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 05:06	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 05:06	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 05:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				07/31/21 11:14	08/01/21 05:06	1
o-Terphenyl	102		70 - 130				07/31/21 11:14	08/01/21 05:06	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Deculé	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: AH-4 (2-2.5') Lab Sample ID: 880-4537-18

4.98

mg/Kg

12.0

Date Collected: 07/28/21 00:00

Chloride

Date Received: 07/30/21 13:28

1,4-Difluorobenzene (Surr)

Matrix: Solid

07/31/21 05:23

07/30/21 13:58

08/01/21 02:57

Method: 8021B - Volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 05:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 05:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 05:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 13:58	07/31/21 05:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 05:23	1
Xylenes, Total	< 0.00399	U	0.00399		mg/Kg		07/30/21 13:58	07/31/21 05:23	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 13:58	07/31/21 05:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				07/30/21 13:58	07/31/21 05:23	1

70 - 130

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/31/21 11:14	08/01/21 05:27	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/31/21 11:14	08/01/21 05:27	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 11:14	08/01/21 05:27	
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 11:14	08/01/21 05:27	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	91		70 - 130				07/31/21 11:14	08/01/21 05:27	
o-Terphenyl	103		70 ₋ 130				07/31/21 11:14	08/01/21 05:27	

Method: 300.0 - Anions, ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	22.6		4.97		mg/Kg			08/01/21 03:02	1	

Client Sample ID: AH-4 (3-3.5')

Lab Sample ID: 880-4537-19

Date Collected: 07/28/21 00:00 Matrix: Solid
Date Received: 07/30/21 13:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 05:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 05:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 05:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/30/21 13:58	07/31/21 05:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/31/21 05:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/30/21 13:58	07/31/21 05:48	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/30/21 13:58	07/31/21 05:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				07/30/21 13:58	07/31/21 05:48	1
1,4-Difluorobenzene (Surr)	102		70 - 130				07/30/21 13:58	07/31/21 05:48	1
Method: 8015B NM - Diesel Ranç Analyte	•		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	•	Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared 07/31/21 11:14	Analyzed 08/01/21 05:48	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result < 50.0	Qualifier U	50.0	MDL	mg/Kg	<u>D</u>	07/31/21 11:14	08/01/21 05:48	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U		MDL		<u> </u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result < 50.0	Qualifier U	50.0	MDL	mg/Kg	<u>D</u>	07/31/21 11:14	08/01/21 05:48	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 <50.0	Qualifier U U	50.0	MDL	mg/Kg	<u>D</u>	07/31/21 11:14	08/01/21 05:48 08/01/21 05:48	Dil Fac 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <50.0 <50.0 <50.0 <50.0 <50.0	Qualifier U U U U	50.0 50.0 50.0 50.0	MDL	mg/Kg mg/Kg mg/Kg	<u> </u>	07/31/21 11:14 07/31/21 11:14 07/31/21 11:14 07/31/21 11:14	08/01/21 05:48 08/01/21 05:48 08/01/21 05:48 08/01/21 05:48	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0 <50.0	Qualifier U U U U	50.0 50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/31/21 11:14 07/31/21 11:14 07/31/21 11:14 07/31/21 11:14 <i>Prepared</i>	08/01/21 05:48 08/01/21 05:48 08/01/21 05:48 08/01/21 05:48 Analyzed	1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U U	50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/31/21 11:14 07/31/21 11:14 07/31/21 11:14 07/31/21 11:14 Prepared 07/31/21 11:14	08/01/21 05:48 08/01/21 05:48 08/01/21 05:48 08/01/21 05:48 Analyzed 08/01/21 05:48	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	07/31/21 11:14 07/31/21 11:14 07/31/21 11:14 07/31/21 11:14 <i>Prepared</i>	08/01/21 05:48 08/01/21 05:48 08/01/21 05:48 08/01/21 05:48 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	Result	Qualifier U U U Qualifier Soluble	50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg mg/Kg mg/Kg mg/Kg	=	07/31/21 11:14 07/31/21 11:14 07/31/21 11:14 07/31/21 11:14 Prepared 07/31/21 11:14 07/31/21 11:14	08/01/21 05:48 08/01/21 05:48 08/01/21 05:48 08/01/21 05:48 Analyzed 08/01/21 05:48 08/01/21 05:48	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 Limits 70 - 130		mg/Kg mg/Kg mg/Kg	<u>D</u>	07/31/21 11:14 07/31/21 11:14 07/31/21 11:14 07/31/21 11:14 Prepared 07/31/21 11:14	08/01/21 05:48 08/01/21 05:48 08/01/21 05:48 08/01/21 05:48 Analyzed 08/01/21 05:48	1 1

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

Date Collected: 07/28/21 00:00

Lab Sample ID: 880-4537-20

Matrix: Solid

Date Received: 07/30/21 13:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/30/21 13:58	07/31/21 06:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/30/21 13:58	07/31/21 06:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/30/21 13:58	07/31/21 06:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/30/21 13:58	07/31/21 06:13	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/30/21 13:58	07/31/21 06:13	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/30/21 13:58	07/31/21 06:13	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		07/30/21 13:58	07/31/21 06:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				07/30/21 13:58	07/31/21 06:13	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/30/21 13:58	07/31/21 06:13	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (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		07/31/21 11:14	08/01/21 06:08	1

Client: Tetra Tech, Inc. Project/Site: Ophelia Riser Spill

Result Qualifier

<0.00200 U

Job ID: 880-4537-1

SDG: Lea County, New Mexico

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-20

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 06:08	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 06:08	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:14	08/01/21 06:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				07/31/21 11:14	08/01/21 06:08	1
o-Terphenyl	107		70 - 130				07/31/21 11:14	08/01/21 06:08	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		5.05		mg/Kg			08/01/21 03:13	1

Client Sample ID: AH-5 (0-1') Lab Sample ID: 880-4537-21 Date Collected: 07/28/21 00:00

RL

0.00200

MDL Unit

mg/Kg

Date Received: 07/30/21 13:28

Benzene

Method: 8021B - Volatile Organic Compounds (GC)

Analyzed

07/31/21 13:24

Prepared

07/30/21 14:01

Matrix: Solid

Dil Fac

Chloride	8.95	F1	4.95		mg/Kg			08/01/21 03:56	1
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
o-Terphenyl	106		70 - 130				07/31/21 11:31	07/31/21 22:31	1
1-Chlorooctane	101		70 - 130				07/31/21 11:31	07/31/21 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:31	07/31/21 22:31	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:31	07/31/21 22:31	1
C10-C28)	-00.0	•	00.0				0021 11.01	0.70.72122.01	•
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/31/21 11:31	07/31/21 22:31	1
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/31/21 11:31	07/31/21 22:31	1
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang						_	_		
1,4-Difluorobenzene (Surr)	79		70 - 130				07/30/21 14:01	07/31/21 13:24	1
4-Bromofluorobenzene (Surr)	127		70 - 130				07/30/21 14:01	07/31/21 13:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/30/21 14:01	07/31/21 13:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/30/21 14:01	07/31/21 13:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 13:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/30/21 14:01	07/31/21 13:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 13:24	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		07/30/21 14:01	07/31/21 13:24	1

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-22

07/31/21 11:31

07/31/21 23:34

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 13:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 13:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 13:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 13:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 13:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 13:49	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				07/30/21 14:01	07/31/21 13:49	1
1,4-Difluorobenzene (Surr)	72		70 - 130				07/30/21 14:01	07/31/21 13:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <49.9 U Gasoline Range Organics 49.9 mg/Kg 07/31/21 11:31 07/31/21 23:34 (GRO)-C6-C10 07/31/21 23:34 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 07/31/21 11:31 C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 07/31/21 11:31 07/31/21 23:34 Total TPH 07/31/21 11:31 07/31/21 23:34 <49.9 U 49.9 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 07/31/21 11:31 07/31/21 23:34

_							
Method: 300.0 - Anions, Ion Chror	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.5	4.98	mg/Kg			08/01/21 04:12	1

70 - 130

93

99

Client Sample ID: AH-5 (2-2.5') Lab Sample ID: 880-4537-23 Date Collected: 07/28/21 00:00 Matrix: Solid

Date Received: 07/30/21 13:28

1-Chlorooctane

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 14:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 14:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 14:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 14:01	07/31/21 14:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 14:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 14:01	07/31/21 14:14	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 14:01	07/31/21 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				07/30/21 14:01	07/31/21 14:14	1
1,4-Difluorobenzene (Surr)	78		70 - 130				07/30/21 14:01	07/31/21 14:14	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/31/21 11:31	07/31/21 23:55	1

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-23

08/01/21 04:18

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/31/21 11:31	07/31/21 23:55	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:31	07/31/21 23:55	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:31	07/31/21 23:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				07/31/21 11:31	07/31/21 23:55	1
o-Terphenyl	103		70 - 130				07/31/21 11:31	07/31/21 23:55	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							

Client Sample ID: AH-5 (3-3.5') Lab Sample ID: 880-4537-24 Matrix: Solid

5.04

mg/Kg

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Chloride

54.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 14:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 14:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 14:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 14:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 14:39	1
Xylenes, Total	< 0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 14:39	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 14:39	1

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108	70 - 130	07/30/21 14:01	07/31/21 14:39	1
1,4-Difluorobenzene (Surr)	96	70 - 130	07/30/21 14:01	07/31/21 14:39	1

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

Method: 0013B MM - Diesei Kang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 00:15	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 00:15	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 00:15	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 00:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				07/31/21 11:31	08/01/21 00:15	1
o-Terphenyl	113		70 - 130				07/31/21 11:31	08/01/21 00:15	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	222	4.99	mg/Kg			08/01/21 04:23	1

Client Sample ID: AH-5 (4-4.5')

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-25

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 15:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 15:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 15:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 14:01	07/31/21 15:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 15:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 14:01	07/31/21 15:04	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 14:01	07/31/21 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108	-	70 - 130				07/30/21 14:01	07/31/21 15:04	1
1,4-Difluorobenzene (Surr)	101		70 - 130				07/30/21 14:01	07/31/21 15:04	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <49.8 U Gasoline Range Organics 49.8 mg/Kg 07/31/21 11:31 08/01/21 00:36 (GRO)-C6-C10 07/31/21 11:31 08/01/21 00:36 Diesel Range Organics (Over <49.8 U 49.8 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <49.8 U 49.8 mg/Kg 07/31/21 11:31 08/01/21 00:36 Total TPH 07/31/21 11:31 08/01/21 00:36 <49.8 U 49.8 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 07/31/21 11:31 08/01/21 00:36

o-Terphenyl	94		70 - 130				07/31/21 11:31	08/01/21 00:36	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		4.97		mg/Kg			08/01/21 04:28	1

86

Client Sample ID: AH-6 (0-1') Lab Sample ID: 880-4537-26 Matrix: Solid Date Collected: 07/28/21 00:00

Date Received: 07/30/21 13:28

1-Chlorooctane

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 15:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 15:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 15:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/30/21 14:01	07/31/21 15:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 15:29	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/30/21 14:01	07/31/21 15:29	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/30/21 14:01	07/31/21 15:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				07/30/21 14:01	07/31/21 15:29	1
1,4-Difluorobenzene (Surr)	105		70 - 130				07/30/21 14:01	07/31/21 15:29	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		07/31/21 11:31	08/01/21 00:57	

Eurofins Xenco, Midland

(GRO)-C6-C10

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-26

08/01/21 04:45

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		07/31/21 11:31	08/01/21 00:57	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/31/21 11:31	08/01/21 00:57	1
Total TPH	<49.7	U	49.7		mg/Kg		07/31/21 11:31	08/01/21 00:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				07/31/21 11:31	08/01/21 00:57	1
o-Terphenyl	95		70 - 130				07/31/21 11:31	08/01/21 00:57	1
_									
_ Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							

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

Date Collected: 07/28/21 00:00

Lab Sample ID: 880-4537-27

Matrix: Solid

4.98

mg/Kg

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Chloride

eived: 07/30/21 13:28

8.65

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 15:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 15:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 15:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 15:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 15:54	1
Xylenes, Total	< 0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 15:54	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 15:54	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111	70 - 130	07/30/21 14:01	07/31/21 15:54	1
1,4-Difluorobenzene (Surr)	101	70 - 130	07/30/21 14:01	07/31/21 15:54	1

metriod. 60 13D Nim - Dieser Range Organics (DRO) (GO)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 01:17	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 01:17	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 01:17	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 01:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				07/31/21 11:31	08/01/21 01:17	1
o-Terphenyl	97		70 - 130				07/31/21 11:31	08/01/21 01:17	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.58	4.99	mg/Kg			08/01/21 04:50	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-4537-1 Project/Site: Ophelia Riser Spill SDG: Lea County, New Mexico

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-28

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 16:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 16:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 16:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 14:01	07/31/21 16:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 16:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 14:01	07/31/21 16:19	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 14:01	07/31/21 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				07/30/21 14:01	07/31/21 16:19	1
1,4-Difluorobenzene (Surr)	93		70 - 130				07/30/21 14:01	07/31/21 16:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <50.0 U Gasoline Range Organics 50.0 mg/Kg 07/31/21 11:31 08/01/21 01:38 (GRO)-C6-C10 mg/Kg 08/01/21 01:38 Diesel Range Organics (Over <50.0 U 50.0 07/31/21 11:31 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 07/31/21 11:31 08/01/21 01:38 Total TPH 07/31/21 11:31 08/01/21 01:38 <50.0 U 50.0 mg/Kg %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed

	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	— Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Į	o-Terphenyl	101	70 - 130			07/31/21 11:31	08/01/21 01:38	1
	1-Chlorooctane	93	70 - 130			07/31/21 11:31	08/01/21 01:38	1

Client Sample ID: AH-6 (3-3.5') Lab Sample ID: 880-4537-29 Date Collected: 07/28/21 00:00 **Matrix: Solid**

5.00

mg/Kg

18.5

Date Received: 07/30/21 13:28

Chloride

(GRO)-C6-C10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 16:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 16:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 16:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 16:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 16:44	1
Xylenes, Total	< 0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 16:44	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 16:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				07/30/21 14:01	07/31/21 16:44	1
1,4-Difluorobenzene (Surr)	103		70 - 130				07/30/21 14:01	07/31/21 16:44	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 01:59	

Eurofins Xenco, Midland

08/01/21 04:55

104

Client: Tetra Tech, Inc. Job ID: 880-4537-1 SDG: Lea County, New Mexico Project/Site: Ophelia Riser Spill

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

o-Terphenyl

Lab Sample ID: 880-4537-29

Matrix: Solid

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC) (0	Continued)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 01:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 01:59	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 01:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				07/31/21 11:31	08/01/21 01:59	1

07/31/21 11:31

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 16.4 5.00 mg/Kg 08/01/21 05:01

70 - 130

Client Sample ID: AH-6 (4-4.5')

Date Collected: 07/28/21 00:00

Lab Sample ID: 880-4537-30

08/01/21 01:59

Matrix: Solid

Date Received: 07/30/21 13:28

Method: 8021B - Volatile Org	ganic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:01	07/31/21 17:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:01	07/31/21 17:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:01	07/31/21 17:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/30/21 14:01	07/31/21 17:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:01	07/31/21 17:08	1
Xylenes, Total	< 0.00396	U	0.00396		mg/Kg		07/30/21 14:01	07/31/21 17:08	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		07/30/21 14:01	07/31/21 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	07/30/21 14:01	07/31/21 17:08	1
1,4-Difluorobenzene (Surr)	103		70 - 130	07/30/21 14:01	07/31/21 17:08	1

Method. 60 130 MM - Dieser Kang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 02:20	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 02:20	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 02:20	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 02:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				07/31/21 11:31	08/01/21 02:20	1
o-Terphenyl	122		70 - 130				07/31/21 11:31	08/01/21 02:20	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.0	5.04	mg/Kg			08/01/21 05:06	1

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-31

07/31/21 11:31

08/01/21 03:01

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 18:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 18:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 18:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 14:01	07/31/21 18:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 18:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 14:01	07/31/21 18:49	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 14:01	07/31/21 18:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				07/30/21 14:01	07/31/21 18:49	1
1,4-Difluorobenzene (Surr)	83		70 - 130				07/30/21 14:01	07/31/21 18:49	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <50.0 U Gasoline Range Organics 50.0 mg/Kg 07/31/21 11:31 08/01/21 03:01 (GRO)-C6-C10 08/01/21 03:01 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 07/31/21 11:31 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 07/31/21 11:31 08/01/21 03:01 Total TPH 50.0 07/31/21 11:31 08/01/21 03:01 <50.0 U mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 103 70 - 130 07/31/21 11:31 08/01/21 03:01

_									
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.8		5.00		mg/Kg			08/01/21 05:12	1

70 - 130

112

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

Date Collected: 07/28/21 00:00

Lab Sample ID: 880-4537-32

Matrix: Solid

Date Received: 07/30/21 13:28

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 19:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 19:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 19:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 19:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 19:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 19:14	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 19:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				07/30/21 14:01	07/31/21 19:14	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/30/21 14:01	07/31/21 19:14	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 03:22	1

Eurofins Xenco, Midland

3

5

7

9

15

13

1 4

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-32

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 03:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 03:22	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 03:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				07/31/21 11:31	08/01/21 03:22	1
o-Terphenyl	105		70 - 130				07/31/21 11:31	08/01/21 03:22	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
•	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: AH-7 (2-2.5') Lab Sample ID: 880-4537-33 Date Collected: 07/28/21 00:00 Matrix: Solid

RL

0.00202

4.98

mg/Kg

MDL Unit

mg/Kg

755

Result Qualifier

<0.00202 U

Chloride

Analyte

Benzene

Date Received: 07/30/21 13:28

Method: 8021B - Volatile Organic Compounds (GC)

Analyzed

07/31/21 19:39

Prepared

07/30/21 14:01

08/01/21 05:28

Dil Fac

Chloride	1460		4.95		mg/Kg			08/01/21 05:33	•
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
o-Terphenyl	100		70 - 130				07/31/21 11:31	08/01/21 03:43	
1-Chlorooctane	92		70 - 130				07/31/21 11:31	08/01/21 03:43	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 03:43	•
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 03:43	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 03:43	
(GRO)-C6-C10	.40.0		40.0				07/04/04 44 04	00/04/04 00 40	
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 03:43	
Analyte	-	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015B NM - Diesel Rang	o Organice (D	PO) (GC)							
1,4-Difluorobenzene (Surr)	101		70 - 130				07/30/21 14:01	07/31/21 19:39	
4-Bromofluorobenzene (Surr)	117		70 - 130				07/30/21 14:01	07/31/21 19:39	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/30/21 14:01	07/31/21 19:39	,
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/30/21 14:01	07/31/21 19:39	
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/30/21 14:01	07/31/21 19:39	
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/30/21 14:01	07/31/21 19:39	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/30/21 14:01	07/31/21 19:39	
Toluene	<0.00202	U	0.00202		mg/Kg		07/30/21 14:01	07/31/21 19:39	

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 880-4537-1

Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-34

07/31/21 11:31

08/01/21 04:04

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/01/21 12:00	08/01/21 21:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/01/21 12:00	08/01/21 21:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/01/21 12:00	08/01/21 21:52	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/01/21 12:00	08/01/21 21:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/01/21 12:00	08/01/21 21:52	1
Xylenes, Total	< 0.00397	U	0.00397		mg/Kg		08/01/21 12:00	08/01/21 21:52	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		08/01/21 12:00	08/01/21 21:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/01/21 12:00	08/01/21 21:52	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/01/21 12:00	08/01/21 21:52	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <49.9 U Gasoline Range Organics 49.9 mg/Kg 07/31/21 11:31 08/01/21 04:04 (GRO)-C6-C10 07/31/21 11:31 08/01/21 04:04 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 07/31/21 11:31 08/01/21 04:04 Total TPH 07/31/21 11:31 08/01/21 04:04 <49.9 U 49.9 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 92 70 - 130 07/31/21 11:31 08/01/21 04:04

Method: 300.0 - Anions, Ion Chrom	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	153	5.04	mg/Kg			08/01/21 05:49	1

70 - 130

101

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

Date Collected: 07/28/21 00:00

Lab Sample ID: 880-4537-35

Matrix: Solid

Date Received: 07/30/21 13:28

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/30/21 14:01	07/31/21 20:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/21 14:01	07/31/21 20:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/21 14:01	07/31/21 20:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/21 14:01	07/31/21 20:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/21 14:01	07/31/21 20:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/21 14:01	07/31/21 20:29	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/30/21 14:01	07/31/21 20:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				07/30/21 14:01	07/31/21 20:29	1
1,4-Difluorobenzene (Surr)	104		70 - 130				07/30/21 14:01	07/31/21 20:29	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 04:24	1

Eurofins Xenco, Midland

4

7

9

11

13

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-35

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 04:24	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 04:24	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 04:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				07/31/21 11:31	08/01/21 04:24	1
o-Terphenyl	109		70 ₋ 130				07/31/21 11:31	08/01/21 04:24	1

5.02 Chloride 36.0 mg/Kg 08/01/21 05:55 Client Sample ID: AH-8 (0-1')

RL

MDL Unit

mg/Kg

D

Prepared

07/30/21 14:01

Result Qualifier

<0.00402 U

Date Collected: 07/28/21 00:00

Analyte

Total BTEX

Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-36 **Matrix: Solid**

07/31/21 20:54

Analyzed

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac RL Benzene <0.00201 U 0.00201 07/30/21 14:01 07/31/21 20:54 mg/Kg Toluene <0.00201 U 0.00201 mg/Kg 07/30/21 14:01 07/31/21 20:54 07/31/21 20:54 Ethylbenzene <0.00201 U 0.00201 mg/Kg 07/30/21 14:01 m-Xylene & p-Xylene <0.00402 U 0.00402 mg/Kg 07/30/21 14:01 07/31/21 20:54 o-Xylene <0.00201 U 0.00201 mg/Kg 07/30/21 14:01 07/31/21 20:54 Xylenes, Total <0.00402 U 0.00402 mg/Kg 07/30/21 14:01 07/31/21 20:54

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109	70 - 130	07/30/21 14:01	07/31/21 20:54	1
1,4-Difluorobenzene (Surr)	101	70 - 130	07/30/21 14:01	07/31/21 20:54	1

0.00402

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

Method. of 130 MM - Dieser Kang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 04:45	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 04:45	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 04:45	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 04:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				07/31/21 11:31	08/01/21 04:45	1
o-Terphenyl	99		70 - 130				07/31/21 11:31	08/01/21 04:45	1

Method: 300.0 - Anions, Ion Chrom	natography - Soluble							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	86.7	4 99	ma/Ka			08/01/21 06:00		

Eurofins Xenco, Midland

Dil Fac

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-4537-1 Project/Site: Ophelia Riser Spill SDG: Lea County, New Mexico

Client Sample ID: AH-8 (1-1.5')

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-37

07/31/21 11:31

08/01/21 05:06

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 21:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 21:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 21:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 21:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 21:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 21:18	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 21:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				07/30/21 14:01	07/31/21 21:18	1
1,4-Difluorobenzene (Surr)	103		70 - 130				07/30/21 14:01	07/31/21 21:18	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <50.0 U Gasoline Range Organics 50.0 mg/Kg 07/31/21 11:31 08/01/21 05:06 (GRO)-C6-C10 Diesel Range Organics (Over 08/01/21 05:06 <50.0 U 50.0 mg/Kg 07/31/21 11:31 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 07/31/21 11:31 08/01/21 05:06 Total TPH 07/31/21 11:31 08/01/21 05:06 <50.0 U 50.0 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 93 70 - 130 07/31/21 11:31 08/01/21 05:06

Method: 300.0 - Anions, Ion Chrom	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1480	5.01	mg/Kg			08/01/21 06:05	1

70 - 130

100

Client Sample ID: AH-8 (2-2.5') Lab Sample ID: 880-4537-38 Date Collected: 07/28/21 00:00 **Matrix: Solid**

Date Received: 07/30/21 13:28

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/01/21 12:00	08/01/21 22:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/01/21 12:00	08/01/21 22:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/01/21 12:00	08/01/21 22:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/01/21 12:00	08/01/21 22:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/01/21 12:00	08/01/21 22:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/01/21 12:00	08/01/21 22:13	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		08/01/21 12:00	08/01/21 22:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				08/01/21 12:00	08/01/21 22:13	1
1,4-Difluorobenzene (Surr)	108		70 - 130				08/01/21 12:00	08/01/21 22:13	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (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		07/31/21 11:31	08/01/21 05:27	1

Client Sample ID: AH-8 (2-2.5')

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-38

08/01/21 06:11

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 05:27	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 05:27	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 11:31	08/01/21 05:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				07/31/21 11:31	08/01/21 05:27	1
o-Terphenyl	99		70 - 130				07/31/21 11:31	08/01/21 05:27	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							

Client Sample ID: AH-8 (3-3.5') Lab Sample ID: 880-4537-39 Matrix: Solid

4.98

mg/Kg

395

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 22:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 22:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 22:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 22:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:01	07/31/21 22:08	1
Xylenes, Total	< 0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 22:08	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 14:01	07/31/21 22:08	1

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	4-Bromofluorobenzene (Surr)	122		70 - 130	07/30/21 14:01	07/31/21 22:08	1
Į	1,4-Difluorobenzene (Surr)	105		70 - 130	07/30/21 14:01	07/31/21 22:08	1

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

e Organics (Di	NO) (GC)							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 05:48	1
<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 05:48	1
<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 05:48	1
<50.0	U	50.0		mg/Kg		07/31/21 11:31	08/01/21 05:48	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
91		70 - 130				07/31/21 11:31	08/01/21 05:48	1
100		70 - 130				07/31/21 11:31	08/01/21 05:48	1

	Result		Result Qualifier RL <50.0	Result Qualifier RL MDL	Result Qualifier RL MDL Unit <50.0	Result Qualifier RL MDL Unit D	Result Qualifier RL MDL Unit D Prepared <50.0	Result Qualifier RL (10.00) MDL (10.00) D (10.00) Prepared (10.00) Analyzed (10.00) <50.0

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	279	4.95	mg/Kg			08/01/21 06:16	1

Client Sample ID: AH-8 (4-4.5')

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-40

07/31/21 11:31

08/01/21 06:08

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 22:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 22:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 22:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 14:01	07/31/21 22:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:01	07/31/21 22:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 14:01	07/31/21 22:33	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 14:01	07/31/21 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111	-	70 - 130				07/30/21 14:01	07/31/21 22:33	1
1,4-Difluorobenzene (Surr)	101		70 - 130				07/30/21 14:01	07/31/21 22:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <50.0 U Gasoline Range Organics 50.0 mg/Kg 07/31/21 11:31 08/01/21 06:08 (GRO)-C6-C10 Diesel Range Organics (Over 08/01/21 06:08 <50.0 U 50.0 mg/Kg 07/31/21 11:31 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 07/31/21 11:31 08/01/21 06:08 Total TPH 07/31/21 11:31 08/01/21 06:08 <50.0 U 50.0 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 89 70 - 130 07/31/21 11:31 08/01/21 06:08

Method: 300.0 - Anions, Ion Chroi	matography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.3	4.95	ma/Ka			08/01/21 06:22	1

70 - 130

96

Client Sample ID: H-1

Date Collected: 07/28/21 00:00

Lab Sample ID: 880-4537-41

Matrix: Solid

Date Received: 07/30/21 13:28

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:15	07/31/21 22:26	1
Toluene	0.00789		0.00199		mg/Kg		07/30/21 14:15	07/31/21 22:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:15	07/31/21 22:26	1
m-Xylene & p-Xylene	0.0142		0.00398		mg/Kg		07/30/21 14:15	07/31/21 22:26	1
o-Xylene	0.00317		0.00199		mg/Kg		07/30/21 14:15	07/31/21 22:26	1
Xylenes, Total	0.0174		0.00398		mg/Kg		07/30/21 14:15	07/31/21 22:26	1
Total BTEX	0.0253		0.00398		mg/Kg		07/30/21 14:15	07/31/21 22:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				07/30/21 14:15	07/31/21 22:26	1
1,4-Difluorobenzene (Surr)	112		70 - 130				07/30/21 14:15	07/31/21 22:26	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	11	50.0		mg/Kg		07/31/21 11:55	08/01/21 07:53	

Eurofins Xenco, Midland

(GRO)-C6-C10

Client Sample ID: H-1

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-41

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 07:53	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 07:53	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 07:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				07/31/21 11:55	08/01/21 07:53	1
o-Terphenyl	90		70 ₋ 130				07/31/21 11:55	08/01/21 07:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 4.99 07/31/21 15:21 Chloride 8.81 mg/Kg

Client Sample ID: H-2 Lab Sample ID: 880-4537-42 Date Collected: 07/28/21 00:00

Date Received: 07/30/21 13:28

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:15	07/31/21 22:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:15	07/31/21 22:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:15	07/31/21 22:46	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/30/21 14:15	07/31/21 22:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:15	07/31/21 22:46	1
Xylenes, Total	< 0.00396	U	0.00396		mg/Kg		07/30/21 14:15	07/31/21 22:46	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		07/30/21 14:15	07/31/21 22:46	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102	70 - 130	07/30/21 14:15	07/31/21 22:46	1
1,4-Difluorobenzene (Surr)	94	70 - 130	07/30/21 14:15	07/31/21 22:46	1

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

Method: 8015B NW - Diesei Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 09:07	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 09:07	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 09:07	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 09:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				07/31/21 11:55	08/01/21 09:07	1
o-Terphenyl	88		70 - 130				07/31/21 11:55	08/01/21 09:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	35.3	5.04	mg/Kg			07/31/21 15:38	1	

Eurofins Xenco, Midland

RL

0.00198

0.00198

0.00198

0.00396

0.00198

0.00396

0.00396

MDL

mg/Kg

Client Sample ID: H-3

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

m-Xylene & p-Xylene

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-43

07/31/21 23:07

Matrix: Solid

Unit	D	Prepared	Analyzed	Dil Fac
mg/Kg		07/30/21 14:15	07/31/21 23:07	1
mg/Kg		07/30/21 14:15	07/31/21 23:07	1
mg/Kg		07/30/21 14:15	07/31/21 23:07	1
mg/Kg		07/30/21 14:15	07/31/21 23:07	1
mg/Kg		07/30/21 14:15	07/31/21 23:07	1
mg/Kg		07/30/21 14:15	07/31/21 23:07	1

07/30/21 14:15

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 07/30/21 14:15 07/31/21 23:07 4-Bromofluorobenzene (Surr) 113 1,4-Difluorobenzene (Surr) 07/30/21 14:15 07/31/21 23:07 99 70 - 130

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

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00198 U

<0.00198 U

<0.00198 U

<0.00396 U

<0.00198 U

<0.00396 U

<0.00396 U

Method. of 130 MM - Dieser Kang	Je Organics (Di	NO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 09:28	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 09:28	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 09:28	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 09:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

	Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
	1-Chlorooctane	87		70 - 130	07	7/31/21 11:55	08/01/21 09:28	1
l	o-Terphenyl	98		70 - 130	07	7/31/21 11:55	08/01/21 09:28	1
ì								

Method: 300.0 - Anions, Ion Chromatography - Soluble MDL Unit Analyte Result Qualifier RL Dil Fac D Prepared Analyzed Chloride 45.2 4.98 mg/Kg 07/31/21 15:43

Client Sample ID: H-4 Lab Sample ID: 880-4537-44 Date Collected: 07/28/21 00:00 Matrix: Solid

Date Received: 07/30/21 13:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:15	07/31/21 23:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:15	07/31/21 23:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:15	07/31/21 23:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 14:15	07/31/21 23:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:15	07/31/21 23:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 14:15	07/31/21 23:28	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 14:15	07/31/21 23:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				07/30/21 14:15	07/31/21 23:28	1
1,4-Difluorobenzene (Surr)	101		70 - 130				07/30/21 14:15	07/31/21 23:28	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 09:49	

Eurofins Xenco, Midland

(GRO)-C6-C10

Client Sample ID: H-4

Lab Sample ID: 880-4537-44 Date Collected: 07/28/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 09:49	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 09:49	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 09:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				07/31/21 11:55	08/01/21 09:49	1
o-Terphenyl	96		70 - 130				07/31/21 11:55	08/01/21 09:49	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte	rtoouit				•	_		, y = 0 a.	

Client Sample ID: H-5 Lab Sample ID: 880-4537-45

Date Collected: 07/28/21 00:00 Matrix: Solid

Date Received: 07/30/21 13:28

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:15	07/31/21 23:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:15	07/31/21 23:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:15	07/31/21 23:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 14:15	07/31/21 23:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:15	07/31/21 23:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/21 14:15	07/31/21 23:48	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 14:15	07/31/21 23:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				07/30/21 14:15	07/31/21 23:48	1
1,4-Difluorobenzene (Surr)	100		70 - 130				07/30/21 14:15	07/31/21 23:48	1
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/31/21 11:55	08/01/21 10:10	
Method: 8015B NM - Diesel Ranç Analyte	, ,	RO) (GC) Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over	<49.8	П	49.8		mg/Kg		07/31/21 11:55	08/01/21 10:10	1
C10-C28)	\49.0	U	49.0		mg/Rg		07/31/21 11.33	00/01/21 10.10	'
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/31/21 11:55	08/01/21 10:10	1
Total TPH	<49.8	U	49.8		mg/Kg		07/31/21 11:55	08/01/21 10:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				07/31/21 11:55	08/01/21 10:10	1
o-Terphenyl	93		70 - 130				07/31/21 11:55	08/01/21 10:10	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
			DI.	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	MDL	Ollit		riepaieu	Allalyzeu	Diriac

Client Sample ID: H-6 Lab Sample ID: 880-4537-46

Date Collected: 07/28/21 00:00 Matrix: Solid

Date Received: 07/30/21 13:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:15	08/01/21 00:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:15	08/01/21 00:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:15	08/01/21 00:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 14:15	08/01/21 00:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:15	08/01/21 00:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 14:15	08/01/21 00:09	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 14:15	08/01/21 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				07/30/21 14:15	08/01/21 00:09	1
1,4-Difluorobenzene (Surr)	106		70 - 130				07/30/21 14:15	08/01/21 00:09	1

Method: 8015B NM - Diesel Rang	hod: 8015B NM - Diesel Range Organics (DRO) (GC)											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		07/31/21 11:55	08/01/21 10:31	1			
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		07/31/21 11:55	08/01/21 10:31	1			
C10-C28)												
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/31/21 11:55	08/01/21 10:31	1			
Total TPH	<49.7	U	49.7		mg/Kg		07/31/21 11:55	08/01/21 10:31	1			
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac			
1-Chlorooctane	88		70 - 130				07/31/21 11:55	08/01/21 10:31	1			
o-Terphenyl	99		70 - 130				07/31/21 11:55	08/01/21 10:31	1			

Method: 300.0 - Anions, lo	n Chromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.6	4.98	ma/Ka			07/31/21 16:10	1

Client Sample ID: H-7

Date Collected: 07/28/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:15	08/01/21 00:30	1
Toluene	0.00360		0.00198		mg/Kg		07/30/21 14:15	08/01/21 00:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:15	08/01/21 00:30	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/30/21 14:15	08/01/21 00:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:15	08/01/21 00:30	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/30/21 14:15	08/01/21 00:30	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		07/30/21 14:15	08/01/21 00:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				07/30/21 14:15	08/01/21 00:30	1
1,4-Difluorobenzene (Surr)	100		70 - 130				07/30/21 14:15	08/01/21 00:30	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (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		07/31/21 11:55	08/01/21 10:53	1

Eurofins Xenco, Midland

2

5

8

10

12

13

Job ID: 880-4537-1

SDG: Lea County, New Mexico

Client Sample ID: H-7

Client: Tetra Tech, Inc.

Lab Sample ID: 880-4537-47

Matrix: Solid

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Project/Site: Ophelia Riser Spill

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 10:53	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 10:53	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 10:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				07/31/21 11:55	08/01/21 10:53	1
o-Terphenyl	82		70 - 130				07/31/21 11:55	08/01/21 10:53	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
						_			B.: E
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: H-8 Lab Sample ID: 880-4537-48 Date Collected: 07/28/21 00:00 Matrix: Solid

Date Received: 07/30/21 13:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00264		0.00198		mg/Kg		07/30/21 14:15	08/01/21 00:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:15	08/01/21 00:50	1
Ethylbenzene	0.00302		0.00198		mg/Kg		07/30/21 14:15	08/01/21 00:50	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/30/21 14:15	08/01/21 00:50	1
o-Xylene	0.00328		0.00198		mg/Kg		07/30/21 14:15	08/01/21 00:50	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/30/21 14:15	08/01/21 00:50	1
Total BTEX	0.00894		0.00397		mg/Kg		07/30/21 14:15	08/01/21 00:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				07/30/21 14:15	08/01/21 00:50	1
1,4-Difluorobenzene (Surr)	106		70 - 130				07/30/21 14:15	08/01/21 00:50	1

1,4-Difluorobenzene (Surr)	106		70 - 130				07/30/21 14:15	08/01/21 00:50	1
– Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 11:14	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 11:14	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 11:14	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 11:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				07/31/21 11:55	08/01/21 11:14	1
o-Terphenyl	89		70 - 130				07/31/21 11:55	08/01/21 11:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier MDL Unit Dil Fac Analyte Analyzed RL Prepared Chloride 19.2 4.95 mg/Kg 07/31/21 16:21

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 880-4537-1

Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

latrix: Solid				Prep Type: Total/NA
				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-4522-A-7-A MS	Matrix Spike	111	106	
880-4522-A-7-B MSD	Matrix Spike Duplicate	105	101	
880-4537-1	AH-1 (0-1')	128	85	
880-4537-1 MS	AH-1 (0-1')	99	107	
880-4537-1 MSD	AH-1 (0-1')	103	113	
380-4537-2	AH-1 (1-1.5')	102	92	
380-4537-3	AH-1 (2-2.5')	104	98	
380-4537-4	AH-1 (3-3.5')	102	97	
380-4537-5	AH-1 (4-4.5')	112	103	
380-4537-6	AH-2 (0-1')	108	100	
380-4537-7	AH-2 (1-1.5')	119	101	
380-4537-8	AH-2 (2-2.5')	112	81	
880-4537-9	AH-2 (3-3.5')	101	97	
380-4537-10	AH-2 (4-4.5')	102	100	
380-4537-11	AH-3 (0-1')	120	82	
380-4537-12	AH-3 (1-1.5')	114	98	
880-4537-13	AH-3 (2-2.5')	104	97	
880-4537-14	AH-3 (3-3.5')	108	102	
80-4537-15	AH-3 (4-4.5')	106	97	
80-4537-16	AH-4 (0-1')	100	97	
80-4537-17	AH-4 (1-1.5')	107	98	
80-4537-18	AH-4 (2-2.5')	111	99	
80-4537-19	AH-4 (3-3.5')	114	102	
80-4537-20	AH-4 (4-4.5')	105	97	
80-4537-21	AH-5 (0-1')	127	79	
80-4537-21 MS	AH-5 (0-1')	100	102	
80-4537-21 MSD	AH-5 (0-1')	106	101	
80-4537-22	AH-5 (1-1.5')	80	72	
80-4537-23	AH-5 (2-2.5')	109	78	
80-4537-24	AH-5 (3-3.5')	108	96	
80-4537-25	AH-5 (4-4.5')	108	101	
80-4537-26	AH-6 (0-1')	119	105	
80-4537-27	AH-6 (1-1.5')	111	101	
80-4537-28	AH-6 (2-2.5')	104	93	
80-4537-29	AH-6 (3-3.5')	124	103	
80-4537-30	AH-6 (4-4.5')	116	103	
80-4537-31	AH-7 (0-1')	131 S1+	83	
880-4537-32	AH-7 (1-1.5')	109	96	
880-4537-33	AH-7 (2-2.5')	117	101	
880-4537-34	AH-7 (3-3.5')	104	92	
880-4537-35	AH-7 (4-4.5')	117	104	
880-4537-36	AH-8 (0-1')	109	101	
880-4537-37	AH-8 (1-1.5')	114	103	
80-4537-38	AH-8 (2-2.5')	113	108	
80-4537-39	AH-8 (3-3.5')	122	105	
880-4537-40	AH-8 (4-4.5')	111	101	
80-4537-41	H-1	102	112	
880-4537-42	H-2	102	94	
380-4537-43	H-3	113	99	

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 880-4537-1

Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-4537-44	H-4	118	101	
880-4537-45	H-5	104	100	
880-4537-46	H-6	108	106	
880-4537-47	H-7	106	100	
880-4537-48	H-8	119	106	
LCS 880-5878/1-A	Lab Control Sample	89	90	
LCS 880-5884/1-A	Lab Control Sample	105	101	
LCS 880-5889/1-A	Lab Control Sample	102	104	
LCS 880-5901/1-A	Lab Control Sample	103	99	
LCSD 880-5878/2-A	Lab Control Sample Dup	93	97	
LCSD 880-5884/2-A	Lab Control Sample Dup	103	105	
LCSD 880-5889/2-A	Lab Control Sample Dup	98	104	
LCSD 880-5901/2-A	Lab Control Sample Dup	100	101	
MB 880-5826/5-A	Method Blank	99	98	
MB 880-5878/5-A	Method Blank	98	84	
MB 880-5884/5-A	Method Blank	70	80	
MB 880-5889/5-A	Method Blank	72	81	
MB 880-5900/5-A	Method Blank	111	86	
MB 880-5901/5-A	Method Blank	100	87	
Curregate Legen 4				
Surrogate Legend BFB = 4-Bromofluorober				

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID				
880-4537-34 MS	AH-7 (3-3.5')				
880-4537-34 MSD	AH-7 (3-3.5')				
Surrogate Legend					
BFB = 4-Bromofluorob	enzene (Surr)				
DFBZ = 1,4-Difluorobe	nzene (Surr)				

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Li
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-4537-1	AH-1 (0-1')	95	99	
380-4537-1 MS	AH-1 (0-1')	79	75	
880-4537-1 MSD	AH-1 (0-1')	85	81	
880-4537-2	AH-1 (1-1.5')	88	88	
380-4537-3	AH-1 (2-2.5')	93	97	
380-4537-4	AH-1 (3-3.5')	92	101	
380-4537-5	AH-1 (4-4.5')	89	95	
880-4537-6	AH-2 (0-1')	85	90	
380-4537-7	AH-2 (1-1.5')	89	96	

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 880-4537-1

Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico

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

Matrix: Solid Prep Type: Total/NA

Matrix: Solid				Prep Type: Total/NA
				Percent Surrogate Recovery (Acceptance Limits)
Lab Camarla ID	Olicat Occupie ID	1CO1 (70-130)	OTPH1	
Lab Sample ID 880-4537-8	Client Sample ID AH-2 (2-2.5')	86	(70-130) 91	. — — — — — — — — — — — — — — — — — — —
880-4537-9	AH-2 (3-3.5')	90	99	
880-4537-10	AH-2 (4-4.5')	91	100	
880-4537-10	AH-3 (0-1')	99	109	
880-4537-12	AH-3 (1-1.5')	89	98	
880-4537-13	AH-3 (2-2.5')	93	101	
880-4537-14	AH-3 (3-3.5')	89	99	
880-4537-15	AH-3 (4-4.5')	90	100	
880-4537-16	AH-4 (0-1')	94	106	
880-4537-17				
880-4537-17	AH-4 (1-1.5')	90 91	102 103	
	AH-4 (2-2.5')	89		
880-4537-19	AH-4 (3-3.5')		97	
880-4537-20	AH-4 (4-4.5')	94	107	
880-4537-21	AH-5 (0-1')	101	106	
880-4537-21 MS	AH-5 (0-1')	92	85	
880-4537-21 MSD	AH-5 (0-1')	91	85	
880-4537-22	AH-5 (1-1.5')	93	99	
880-4537-23	AH-5 (2-2.5')	98	103	
880-4537-24	AH-5 (3-3.5')	105	113	
880-4537-25	AH-5 (4-4.5')	86	94	
880-4537-26	AH-6 (0-1')	87	95	
880-4537-27	AH-6 (1-1.5')	92	97	
880-4537-28	AH-6 (2-2.5')	93	101	
880-4537-29	AH-6 (3-3.5')	97	104	
880-4537-30	AH-6 (4-4.5')	109	122	
880-4537-31	AH-7 (0-1')	103	112	
880-4537-32	AH-7 (1-1.5')	97	105	
880-4537-33	AH-7 (2-2.5')	92	100	
880-4537-34	AH-7 (3-3.5')	92	101	
880-4537-35	AH-7 (4-4.5')	100	109	
880-4537-36	AH-8 (0-1')	94	99	
880-4537-37	AH-8 (1-1.5')	93	100	
880-4537-38	AH-8 (2-2.5')	91	99	
880-4537-39	AH-8 (3-3.5')	91	100	
880-4537-40	AH-8 (4-4.5')	89	96	
880-4537-41	H-1	83	90	
880-4537-41 MS	H-1	90	91	
880-4537-41 MSD	H-1	90	88	
880-4537-42	H-2	83	88	
880-4537-43	H-3	87	98	
880-4537-44	H-4	85	96	
880-4537-45	H-5	84	93	
880-4537-46	H-6	88	99	
880-4537-47	H-7	78	82	
880-4537-48	H-8	83	89	
LCS 880-5925/2-A	Lab Control Sample	100	102	
LCS 880-5926/2-A	Lab Control Sample	102	101	
LCS 880-5927/2-A	Lab Control Sample	107	116	
LCSD 880-5925/3-A	Lab Control Sample Dup	101	103	
LCSD 880-5926/3-A	Lab Control Sample Dup	112	115	

Eurofins Xenco, Midland

2

4

6

0

10

12

4 A

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 880-4537-1

Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCSD 880-5927/3-A	Lab Control Sample Dup	105	116	
MB 880-5925/1-A	Method Blank	103	116	
MB 880-5926/1-A	Method Blank	101	114	
MB 880-5927/1-A	Method Blank	110	128	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Client: Tetra Tech, Inc. Project/Site: Ophelia Riser Spill SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5826/5-A

Lab Sample ID: MB 880-5878/5-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 5862

Analysis Batch: 5862

Client Sample	ID: Method	Blank
---------------	------------	-------

Prep Type: Total/NA

Prep Batch: 5826

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 08:00	07/31/21 05:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 08:00	07/31/21 05:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 08:00	07/31/21 05:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/21 08:00	07/31/21 05:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 08:00	07/31/21 05:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/21 08:00	07/31/21 05:53	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/30/21 08:00	07/31/21 05:53	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	d Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	07/30/21 0	3:00 07/31/21 05:53	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/30/21 0	3:00 07/31/21 05:53	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5878

мв мв

	III D	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 11:46	07/31/21 16:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 11:46	07/31/21 16:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 11:46	07/31/21 16:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/21 11:46	07/31/21 16:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 11:46	07/31/21 16:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/21 11:46	07/31/21 16:53	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/30/21 11:46	07/31/21 16:53	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	07/30/21 11:46	07/31/21 16:53	1
1,4-Difluorobenzene (Surr)	84		70 - 130	07/30/21 11:46	07/31/21 16:53	1

Lab Sample ID: LCS 880-5878/1-A

Matrix: Solid

Analysis Batch: 5862

Client Sample I	D: Lab Control Sample
	Prep Type: Total/NA

Prep Batch: 5878

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1014		mg/Kg		101	70 - 130	
Toluene	0.100	0.09208		mg/Kg		92	70 - 130	
Ethylbenzene	0.100	0.08735		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene	0.200	0.1712		mg/Kg		86	70 - 130	
o-Xylene	0.100	0.08575		mg/Kg		86	70 - 130	

LCS LCS

Surrogate	%Recovery Qua	alifier Limits
4-Bromofluorobenzene (Surr)	89	70 - 130
1,4-Difluorobenzene (Surr)	90	70 - 130

Client: Tetra Tech, Inc. Job ID: 880-4537-1 SDG: Lea County, New Mexico Project/Site: Ophelia Riser Spill

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

Lab Sample ID: LCSD 880-5878/2-A

Matrix: Solid Analysis Batch: 5862 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5878

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1045		mg/Kg		104	70 - 130	3	35
Toluene	0.100	0.09225		mg/Kg		92	70 - 130	0	35
Ethylbenzene	0.100	0.08413		mg/Kg		84	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1764		mg/Kg		88	70 - 130	3	35
o-Xylene	0.100	0.08947		mg/Kg		89	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1.4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-4522-A-7-A MS Client Sample ID: Matrix Spike

Analysis Batch: 5862

Matrix: Solid Prep Type: Total/NA

Prep Batch: 5878

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.00238		0.0992	0.1018		mg/Kg		100	70 - 130	
Toluene	<0.00199	U	0.0992	0.09233		mg/Kg		93	70 - 130	
Ethylbenzene	<0.00199	U	0.0992	0.08206		mg/Kg		82	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1754		mg/Kg		88	70 - 130	
o-Xylene	<0.00199	U	0.0992	0.08019		mg/Kg		80	70 - 130	

MS MS

Surrogate	%Recovery Qualifi	ier Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1.4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: 880-4522-A-7-B MSD

Matrix: Solid

Analysis Batch: 5862

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 5878

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.00238		0.100	0.07835	-	mg/Kg		76	70 - 130	26	35	
Toluene	< 0.00199	U	0.100	0.08097		mg/Kg		81	70 - 130	13	35	
Ethylbenzene	< 0.00199	U	0.100	0.07548		mg/Kg		75	70 - 130	8	35	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1524		mg/Kg		76	70 - 130	14	35	
o-Xylene	< 0.00199	U	0.100	0.07306		mg/Kg		72	70 - 130	9	35	

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: MB 880-5884/5-A

Matrix: Solid

Analysis Batch: 5899

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5884

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 20:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 20:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 20:36	1

Eurofins Xenco, Midland

Page 42 of 82

Client: Tetra Tech, Inc. Job ID: 880-4537-1 Project/Site: Ophelia Riser Spill SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-5884/5-A

Matrix: Solid

Analysis Batch: 5899

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5884

	IND	1410							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/21 13:58	07/30/21 20:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 13:58	07/30/21 20:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/21 13:58	07/30/21 20:36	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/30/21 13:58	07/30/21 20:36	1

MB MB

MR MR

Surrogate	%Recovery Qualifier	Limits	Prepai	red Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70	70 - 130	07/30/21	13:58 07/30/21 20:36	1
1,4-Difluorobenzene (Surr)	80	70 - 130	07/30/21	13:58 07/30/21 20:36	1

Lab Sample ID: LCS 880-5884/1-A

Matrix: Solid

Analysis Batch: 5899

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 5884

Spike LCS LCS %Rec. Result Qualifier Analyte Added Unit %Rec Limits Benzene 0.100 0.1063 106 70 - 130 mg/Kg Toluene 0.100 0.1082 mg/Kg 108 70 - 130 Ethylbenzene 0.100 0.1191 mg/Kg 119 70 - 130 0.200 m-Xylene & p-Xylene 0.2369 70 - 130 mg/Kg 118 o-Xylene 0.100 0.09732 mg/Kg 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-5884/2-A

Matrix: Solid

Analysis Batch: 5899

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5884

-	Spike	LCSD	LCSD				%Rec.	-	RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1029		mg/Kg		103	70 - 130	3	35
Toluene	0.100	0.1042		mg/Kg		104	70 - 130	4	35
Ethylbenzene	0.100	0.1132		mg/Kg		113	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2249		mg/Kg		112	70 - 130	5	35
o-Xylene	0.100	0.09350		mg/Kg		93	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: 880-4537-1 MS

Matrix: Solid

Analysis Batch: 5899

Client Sample ID: AH-1 (0-1') Prep Type: Total/NA

Prep Batch: 5884

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.08300		mg/Kg		83	70 - 130	
Toluene	<0.00199	U	0.0998	0.08600		mg/Kg		86	70 - 130	
Ethylbenzene	<0.00199	U	0.0998	0.09775		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1855		mg/Kg		93	70 - 130	

Client: Tetra Tech, Inc. Job ID: 880-4537-1 Project/Site: Ophelia Riser Spill SDG: Lea County, New Mexico

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

Lab Sample ID: 880-4537-1 MS **Matrix: Solid**

Analysis Batch: 5899

Client Sample ID: AH-1 (0-1') Prep Type: Total/NA

Prep Batch: 5884

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits o-Xylene <0.00199 U 0.0998 0.07666 77 70 - 130 mg/Kg

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 99 70 - 130 107 70 - 130 1,4-Difluorobenzene (Surr)

> Client Sample ID: AH-1 (0-1') Prep Type: Total/NA

Prep Batch: 5884

Lab Sample ID: 880-4537-1 MSD **Matrix: Solid**

Analysis Batch: 5899

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.08384		mg/Kg		84	70 - 130	1	35
Toluene	<0.00199	U	0.100	0.08542		mg/Kg		85	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.100	0.09935		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1950		mg/Kg		97	70 - 130	5	35
o-Xylene	<0.00199	U	0.100	0.08121		mg/Kg		81	70 - 130	6	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: MB 880-5889/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 5899

Prep Batch: 5889

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/30/21 14:01	07/31/21 12:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/30/21 14:01	07/31/21 12:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/30/21 14:01	07/31/21 12:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/30/21 14:01	07/31/21 12:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/30/21 14:01	07/31/21 12:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/30/21 14:01	07/31/21 12:59	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		07/30/21 14:01	07/31/21 12:59	1

мв мв

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72	70 - 130	07/30/21 14:01	07/31/21 12:59	1
1,4-Difluorobenzene (Surr)	81	70 - 130	07/30/21 14:01	07/31/21 12:59	1

Lab Sample ID: LCS 880-5889/1-A

Matrix: Solid

Analysis Batch: 5899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5889

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08967		mg/Kg		90	70 - 130	
Toluene	0.100	0.1089		mg/Kg		109	70 - 130	
Ethylbenzene	0.100	0.1036		mg/Kg		104	70 - 130	
m-Xylene & p-Xylene	0.200	0.2062		mg/Kg		103	70 - 130	
o-Xylene	0.100	0.08530		mg/Kg		85	70 - 130	

Eurofins Xenco, Midland

Page 44 of 82

Client: Tetra Tech, Inc. Job ID: 880-4537-1 Project/Site: Ophelia Riser Spill SDG: Lea County, New Mexico

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

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-5889/2-A

Matrix: Solid

Analysis Batch: 5899

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5889

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09030		mg/Kg		90	70 - 130	1	35
Toluene	0.100	0.1076		mg/Kg		108	70 - 130	1	35
Ethylbenzene	0.100	0.09318		mg/Kg		93	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1815		mg/Kg		91	70 - 130	13	35
o-Xylene	0.100	0.07649		mg/Kg		76	70 - 130	11	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-4537-21 MS

Matrix: Solid

Analysis Batch: 5899

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

Prep Type: Total/NA

Prep Batch: 5889

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.09436		mg/Kg		95	70 - 130	
Toluene	<0.00200	U F1	0.0998	0.1255		mg/Kg		124	70 - 130	
Ethylbenzene	<0.00200	U	0.0998	0.1008		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1977		mg/Kg		99	70 - 130	
o-Xylene	<0.00200	U	0.0998	0.08296		mg/Kg		83	70 - 130	

Spike

Added

0.0994

0.0994

0.0994

0.199

0.0994

MSD MSD

Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Result

0.1450 F1

0.09609

0.1118

0.2231

0.09117

MS MS

Sample Sample Result Qualifier

U

<0.00200

<0.00200 UF1

<0.00200 U

<0.00401 U

<0.00200 U

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1 4-Diffuorobenzene (Surr)	102	70 130

Lab Sample ID: 880-4537-21 MSD

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 5899

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

%Rec

97

144

112

112

70 - 130

70 - 130

Prep Type: Total/NA

Prep Batch: 5889

12

35

%Rec. RPD Limits **RPD** Limit 2 35 70 - 130 70 - 130 14 35 70 - 130 10 35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Client: Tetra Tech, Inc. Job ID: 880-4537-1 SDG: Lea County, New Mexico Project/Site: Ophelia Riser Spill

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

Lab Sample ID: MB 880-5900/5-A

Matrix: Solid

Analysis Batch: 5862

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

Prep Batch: 5900

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 15:15	08/01/21 03:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 15:15	08/01/21 03:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 15:15	08/01/21 03:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/21 15:15	08/01/21 03:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 15:15	08/01/21 03:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/21 15:15	08/01/21 03:52	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/30/21 15:15	08/01/21 03:52	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepa	red	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	07/30/21	15:15	08/01/21 03:52	1
1,4-Difluorobenzene (Surr)	86		70 - 130	07/30/21	15:15	08/01/21 03:52	1

Lab Sample ID: MB 880-5901/5-A

Matrix: Solid

Analysis Batch: 5862

Client Sample ID: Method Blank

08/01/21 21:30

Prep Type: Total/NA

Prep Batch: 5901

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/01/21 12:00	08/01/21 21:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/01/21 12:00	08/01/21 21:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/01/21 12:00	08/01/21 21:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/01/21 12:00	08/01/21 21:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/01/21 12:00	08/01/21 21:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/01/21 12:00	08/01/21 21:30	1

0.00400

mg/Kg

MB MB

<0.00400 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/01/21 12:00	08/01/21 21:30	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/01/21 12:00	08/01/21 21:30	1

Lab Sample ID: LCS 880-5901/1-A

Matrix: Solid

Total BTEX

Analysis Batch: 5862

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

08/01/21 12:00

Prep Batch: 5901

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1050		mg/Kg		105	70 - 130	
Toluene	0.100	0.1115		mg/Kg		112	70 - 130	
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.2064		mg/Kg		103	70 - 130	
o-Xylene	0.100	0.09387		mg/Kg		94	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 _ 130
1,4-Difluorobenzene (Surr)	99		70 - 130

100

mg/Kg

70 - 130

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 880-4537-1 Project/Site: Ophelia Riser Spill SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-5901/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 5862 Prep Batch: 5901

0.100

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1185		mg/Kg		118	70 - 130	12	35
Toluene	0.100	0.1083		mg/Kg		108	70 - 130	3	35
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2131		mg/Kg		107	70 - 130	3	35

0.09997

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1.4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-4537-34 MS Client Sample ID: AH-7 (3-3.5')

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 5862 Prep Batch: 5901

		Sample	Sample	Spike	MS	MS				%Rec.	
1	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ē	Benzene	<0.00198	U	0.100	0.09156		mg/Kg				
1	Toluene	<0.00198	U	0.100	0.07863		mg/Kg				
E	Ethylbenzene	<0.00198	U	0.100	0.07389		mg/Kg				
r	m-Xylene & p-Xylene	<0.00397	U	0.200	0.1547		mg/Kg				
(o-Xylene	<0.00198	U	0.100	0.07182		mg/Kg				

MS MS Surrogate %Recovery Qualifier Limits

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

o-Xylene

Lab Sample ID: 880-4537-34 MSD Client Sample ID: AH-7 (3-3.5') Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 5862

	Sample	Sample	Spike	MSD	MSD				%Rec.	•	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.0994	0.1040		mg/Kg					
Toluene	<0.00198	U	0.0994	0.1006		mg/Kg					
Ethylbenzene	<0.00198	U	0.0994	0.09092		mg/Kg					
m-Xylene & p-Xylene	<0.00397	U	0.199	0.1996		mg/Kg					
o-Xylene	<0.00198	U	0.0994	0.08872		mg/Kg					

MSD MSD Surrogate %Recovery Qualifier Limits

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Eurofins Xenco, Midland

Prep Batch: 5901

Client: Tetra Tech, Inc. Project/Site: Ophelia Riser Spill SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-5925/1-A

Matrix: Solid

Analysis Batch: 5915

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

							Prep Bato	h: 5925	
MB	MB								
esult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
-50.0	11	F0.0		malka		07/21/21 11:14	07/21/21 21:20		

Analyte	Result	Qualifier	KL	MDL Unit	U	Prepared	Analyzea	DII Fac
Gasoline Range Organics	<50.0	U	50.0	mg/l	 (g	07/31/21 11:14	07/31/21 21:29	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/l	(g	07/31/21 11:14	07/31/21 21:29	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/l	K g	07/31/21 11:14	07/31/21 21:29	1
Total TPH	<50.0	U	50.0	mg/l	ζg	07/31/21 11:14	07/31/21 21:29	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	07/31/21 11:14	07/31/21 21:29	1
o-Terphenyl	116		70 - 130	07/31/21 11:14	07/31/21 21:29	1

Lab Sample ID: LCS 880-5925/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA

Analysis Batch: 5915

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	892.5		mg/Kg		89	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	968.9		mg/Kg		97	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-5925/3-A

Matrix: Solid

Analysis Batch: 5915

Client Sample	ID: Lab Control	Sample Dup
---------------	-----------------	------------

Prep Type: Total/NA

Prep Batch: 5925

Prep Batch: 5925

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	940.5		mg/Kg		94	70 - 130	5	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	990.5		mg/Kg		99	70 - 130	2	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	101	70 _ 130
o-Terphenyl	103	70 - 130

Lab Sample ID: 880-4537-1 MS

Matrix: Solid

Analysis Batch: 5915

Client	Sample	ID: Z	ΔH_1	(n ₋ 1')

Prep Type: Total/NA

Prep Batch: 5925

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	803.0		mg/Kg		81	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	996	916.5		mg/Kg		92	70 - 130	

Client: Tetra Tech, Inc. Project/Site: Ophelia Riser Spill

Job ID: 880-4537-1 SDG: Lea County, New Mexico

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

MS MS

Lab Sample ID: 880-4537-1 MS

Matrix: Solid

Analysis Batch: 5915

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

Prep Type: Total/NA

Prep Batch: 5925

Surrogate	%Recovery Qualific	er Limits
1-Chlorooctane	79	70 - 130
o-Terphenyl	75	70 - 130

Lab Sample ID: 880-4537-1 MSD Client Sample ID: AH-1 (0-1')

Matrix: Solid

Analysis Batch: 5915

Prep Type: Total/NA

Prep Batch: 5925

_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	846.1		mg/Kg		85	70 - 130	5	20
Diesel Range Organics (Over	<50.0	U	996	1007		mg/Kg		101	70 - 130	9	20

C10-C28)

Matrix: Solid

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	81		70 - 130

Client Sample ID: Method Blank

Analyzed

Prepared

Prep Type: Total/NA

Prep Batch: 5926

Dil Fac

Analysis Batch: 5917 MB MB

Lab Sample ID: MB 880-5926/1-A

Analyte	Result	Qualifier	RL
Gasoline Range Organics	<50.0	U	50.0
(GRO)-C6-C10			

						-	
Gasoline Range Organics	<50.0	U	50.0	mg/Kg	 07/31/21 11:31	07/31/21 21:29	1
(GRO)-C6-C10							
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg	07/31/21 11:31	07/31/21 21:29	1
C10-C28)							
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	07/31/21 11:31	07/31/21 21:29	1
Total TPH	<50.0	U	50.0	mg/Kg	07/31/21 11:31	07/31/21 21:29	1

MDL Unit

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	07/31/21 11:31	07/31/21 21:29	1
o-Terphenyl	114		70 - 130	07/31/21 11:31	07/31/21 21:29	1

Lab Sample ID: LCS 880-5926/2-A

Matrix: Solid

Analysis Batch: 5917

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

Prep Batch: 5926

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	933.8		mg/Kg		93	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	993.7		mg/Kg		99	70 - 130	
C10-C28)								

LCS	LCS
-----	-----

Surrogate	%Recovery Q	ualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	101		70 - 130

Client: Tetra Tech, Inc. Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico

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

LCSD LCSD

Sample Sample

Lab Sample ID: LCSD 880-5926/3-A

Matrix: Solid Analysis Batch: 5917 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 5926

Spike LCSD LCSD RPD RPD Analyte Added Result Qualifier Unit %Rec Limits D Gasoline Range Organics 1000 916.5 mg/Kg 92 70 - 130 2 20

Limit

(GRO)-C6-C10 1000 Diesel Range Organics (Over 70 - 1301114 mg/Kg 111 11 20 C10-C28)

%Recovery

Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 112 o-Terphenyl 115 70 - 130

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

%Rec.

Prep Type: Total/NA

Matrix: Solid Analysis Batch: 5917 Prep Batch: 5926

MS MS

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 91 Gasoline Range Organics <50.0 U 996 925.5 mg/Kg 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 996 980.0 mg/Kg 98 70 - 130 C10-C28)

Spike

Lab Sample ID: 880-4537-21 MS

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 92 70 - 130 85 70 - 130 o-Terphenyl

Lab Sample ID: 880-4537-21 MSD Client Sample ID: AH-5 (0-1') **Matrix: Solid**

Matrix: Solid

Analysis Batch: 5915

Analysis Batch: 5917

Prep Type: Total/NA Prep Batch: 5926

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit <50.0 U 996 903.8 89 Gasoline Range Organics 70 - 130 2 20 mg/Kg (GRO)-C6-C10 996 980.6 98 Diesel Range Organics (Over <50.0 U mg/Kg 70 - 130 O 20 C10-C28)

MSD MSD Qualifier Surrogate %Recovery

Limits 1-Chlorooctane 91 70 - 130 85 70 - 130 o-Terphenyl

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5927

MB MB MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 07/31/21 11:55 08/01/21 06:50 mg/Kg (GRO)-C6-C10 07/31/21 11:55 08/01/21 06:50 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) 07/31/21 11:55 08/01/21 06:50 OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg Total TPH <50.0 U 50.0 07/31/21 11:55 08/01/21 06:50 mg/Kg

Eurofins Xenco, Midland

Lab Sample ID: MB 880-5927/1-A

Job ID: 880-4537-1 SDG: Lea County, New Mexico

Project/Site: Ophelia Riser Spill

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) Lab Sample ID: MB 880-5927/1-A

Matrix: Solid

Analysis Batch: 5915

Client: Tetra Tech, Inc.

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 5927

MB MB

Surrogate	%Recovery	Qualifier	Limits	_	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130		07/31/21 11:55	08/01/21 06:50	1
o-Terphenyl	128		70 - 130		07/31/21 11:55	08/01/21 06:50	1

Lab Sample ID: LCS 880-5927/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 5915

Prep Type: Total/NA

Prep Batch: 5927

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	935.8		mg/Kg		94	70 - 130	•
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1086		mg/Kg		109	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qualifi	ier Limits
1-Chlorooctane	107	70 - 130
o-Terphenyl	116	70 - 130

Lab Sample ID: LCSD 880-5927/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 5915

Prep Type: Total/NA

Prep Batch: 5927

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits Limit Gasoline Range Organics 1000 909.4 mg/Kg 91 70 - 130 3 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 1089 mg/Kg 109 70 - 130 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	116		70 - 130

Client Sample ID: H-1 Lab Sample ID: 880-4537-41 MS **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 5915 Prep Batch: 5927

Sample Sample Spike MS MS %Rec. Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <50.0 U 996 807.7 81 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 996 921.2 mg/Kg 92 70 - 130

C10-C28)

MS MS

Surrogate	%Recovery Qualifie	er Limits
1-Chlorooctane	90	70 - 130
o-Terphenyl	91	70 - 130

Job ID: 880-4537-1 SDG: Lea County, New Mexico

Project/Site: Ophelia Riser Spill

Client: Tetra Tech, Inc.

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

Lab Sample ID: 880-4537-41 MSD Client Sample ID: H-1

Matrix: Solid

Analysis Batch: 5915

Prep Type: Total/NA Prep Batch: 5927

Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <50.0 U 996 870.0 mg/Kg 87 70 - 130 20 (GRO)-C6-C10 996 Diesel Range Organics (Over <50.0 U 904.6 mg/Kg 91 70 - 1302

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	88		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5883/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 5908

мв мв

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 08/01/21 00:31

Lab Sample ID: LCS 880-5883/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 5908

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	257.8		mg/Kg		103	90 - 110	

Lab Sample ID: LCSD 880-5883/3-A

Matrix: Solid

Analysis Batch: 5908

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	257.8		ma/Ka		103	90 _ 110		20

Lab Sample ID: 880-4537-1 MS Client Sample ID: AH-1 (0-1') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 5908

	Sample	Sample	эріке	IVIO	IVIS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	7.90		250	261.2		mg/Kg		101	90 - 110	

Lab Sample ID: 880-4537-1 MSD Client Sample ID: AH-1 (0-1')

Matrix: Solid

Analysis Batch: 5908

-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	7.90		250	261.1		mg/Kg		101	90 - 110	0	20

Eurofins Xenco, Midland

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Client: Tetra Tech, Inc. Project/Site: Ophelia Riser Spill

Job ID: 880-4537-1 SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-4537-11 MS Client Sample ID: AH-3 (0-1') **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5908

Sample Sample Spike MS MS %Rec. Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits Chloride 64.4 248 296.1 mg/Kg 94 90 - 110

Lab Sample ID: 880-4537-11 MSD Client Sample ID: AH-3 (0-1')

Matrix: Solid Prep Type: Soluble

Analysis Batch: 5908

Sample Sample Spike MSD MSD %Rec. RPD Qualifier Added RPD Limit Analyte Result Result Qualifier Unit D %Rec Limits Chloride 64.4 248 296.4 mg/Kg 90 - 110

Lab Sample ID: MB 880-5885/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5909

мв мв

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 08/01/21 03:40 mg/Kg

Lab Sample ID: LCS 880-5885/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5909

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit %Rec Limits Chloride 250 259.2 104 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-5885/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 5909

LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 259.8 mg/Kg 104 90 - 110

Lab Sample ID: 880-4537-21 MS Client Sample ID: AH-5 (0-1') **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5909

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 8 95 F1 248 175.6 F1 mg/Kg 90 - 110

Lab Sample ID: 880-4537-21 MSD Client Sample ID: AH-5 (0-1') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 5909

MSD MSD %Rec. RPD Sample Sample Spike Added Result Qualifier Analyte Result Qualifier Limits RPD Limit Unit D %Rec Chloride 8.95 F1 248 175.8 F1 mg/Kg 67 90 - 110 20

Lab Sample ID: 880-4537-31 MS Client Sample ID: AH-7 (0-1') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 5909

Analysis Batom 5000										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	38.8		250	274.5		mg/Kg		94	90 - 110	

SDG: Lea County, New Mexico

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

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-4537-31 MSD

Matrix: Solid

Client: Tetra Tech, Inc.

Analysis Batch: 5909

Project/Site: Ophelia Riser Spill

Tananyone Bantonii eest												
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	38.8		250	275.2		mg/Kg		95	90 - 110	0	20	

Lab Sample ID: MB 880-5886/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5944

мв мв

Result Qualifier MDL Unit Analyte RL Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 07/31/21 15:05

Lab Sample ID: LCS 880-5886/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5944

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	238.6		mg/Kg	_	95	90 - 110	

Lab Sample ID: LCSD 880-5886/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 5944

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	239.0		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-4537-41 MS Client Sample ID: H-1 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 5944

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	8.81		250	247.8		ma/Ka		96	90 110	

Lab Sample ID: 880-4537-41 MSD

Matrix: Solid

Analysis Batch: 5944

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	8.81		250	246.5		mg/Kg		95	90 - 110	1	20

Eurofins Xenco, Midland

Client Sample ID: H-1

Prep Type: Soluble

Client: Tetra Tech, Inc.

Job ID: 880-4537-1

Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico

GC VOA

Prep Batch: 5826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5826/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 5862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4537-34	AH-7 (3-3.5')	Total/NA	Solid	8021B	5901
880-4537-38	AH-8 (2-2.5')	Total/NA	Solid	8021B	5901
880-4537-41	H-1	Total/NA	Solid	8021B	5878
880-4537-42	H-2	Total/NA	Solid	8021B	5878
880-4537-43	H-3	Total/NA	Solid	8021B	5878
880-4537-44	H-4	Total/NA	Solid	8021B	5878
880-4537-45	H-5	Total/NA	Solid	8021B	5878
880-4537-46	H-6	Total/NA	Solid	8021B	5878
880-4537-47	H-7	Total/NA	Solid	8021B	5878
880-4537-48	H-8	Total/NA	Solid	8021B	5878
MB 880-5826/5-A	Method Blank	Total/NA	Solid	8021B	5826
MB 880-5878/5-A	Method Blank	Total/NA	Solid	8021B	5878
MB 880-5900/5-A	Method Blank	Total/NA	Solid	8021B	5900
MB 880-5901/5-A	Method Blank	Total/NA	Solid	8021B	5901
LCS 880-5878/1-A	Lab Control Sample	Total/NA	Solid	8021B	5878
LCS 880-5901/1-A	Lab Control Sample	Total/NA	Solid	8021B	5901
LCSD 880-5878/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5878
LCSD 880-5901/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5901
880-4522-A-7-A MS	Matrix Spike	Total/NA	Solid	8021B	5878
880-4522-A-7-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	5878
880-4537-34 MS	AH-7 (3-3.5')	Total/NA	Solid	8021B	5901
880-4537-34 MSD	AH-7 (3-3.5')	Total/NA	Solid	8021B	5901

Prep Batch: 5878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4537-41	H-1	Total/NA	Solid	5035	
880-4537-42	H-2	Total/NA	Solid	5035	
880-4537-43	H-3	Total/NA	Solid	5035	
880-4537-44	H-4	Total/NA	Solid	5035	
880-4537-45	H-5	Total/NA	Solid	5035	
880-4537-46	H-6	Total/NA	Solid	5035	
880-4537-47	H-7	Total/NA	Solid	5035	
880-4537-48	H-8	Total/NA	Solid	5035	
MB 880-5878/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5878/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5878/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-4522-A-7-A MS	Matrix Spike	Total/NA	Solid	5035	
880-4522-A-7-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 5884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4537-1	AH-1 (0-1')	Total/NA	Solid	5035	
880-4537-2	AH-1 (1-1.5')	Total/NA	Solid	5035	
880-4537-3	AH-1 (2-2.5')	Total/NA	Solid	5035	
880-4537-4	AH-1 (3-3.5')	Total/NA	Solid	5035	
880-4537-5	AH-1 (4-4.5')	Total/NA	Solid	5035	
880-4537-6	AH-2 (0-1')	Total/NA	Solid	5035	

Eurofins Xenco, Midland

Page 55 of 82

Job ID: 880-4537-1 Client: Tetra Tech, Inc. Project/Site: Ophelia Riser Spill SDG: Lea County, New Mexico

GC VOA (Continued)

Prep Batch: 5884 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4537-7	AH-2 (1-1.5')	Total/NA	Solid	5035	
880-4537-8	AH-2 (2-2.5')	Total/NA	Solid	5035	
880-4537-9	AH-2 (3-3.5')	Total/NA	Solid	5035	
880-4537-10	AH-2 (4-4.5')	Total/NA	Solid	5035	
880-4537-11	AH-3 (0-1')	Total/NA	Solid	5035	
880-4537-12	AH-3 (1-1.5')	Total/NA	Solid	5035	
880-4537-13	AH-3 (2-2.5')	Total/NA	Solid	5035	
880-4537-14	AH-3 (3-3.5')	Total/NA	Solid	5035	
880-4537-15	AH-3 (4-4.5')	Total/NA	Solid	5035	
880-4537-16	AH-4 (0-1')	Total/NA	Solid	5035	
880-4537-17	AH-4 (1-1.5')	Total/NA	Solid	5035	
880-4537-18	AH-4 (2-2.5')	Total/NA	Solid	5035	
880-4537-19	AH-4 (3-3.5')	Total/NA	Solid	5035	
880-4537-20	AH-4 (4-4.5')	Total/NA	Solid	5035	
MB 880-5884/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5884/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5884/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-4537-1 MS	AH-1 (0-1')	Total/NA	Solid	5035	
880-4537-1 MSD	AH-1 (0-1')	Total/NA	Solid	5035	

Prep Batch: 5889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-4537-21	AH-5 (0-1')	Total/NA	Solid	5035	
880-4537-22	AH-5 (1-1.5')	Total/NA	Solid	5035	
880-4537-23	AH-5 (2-2.5')	Total/NA	Solid	5035	
880-4537-24	AH-5 (3-3.5')	Total/NA	Solid	5035	
880-4537-25	AH-5 (4-4.5')	Total/NA	Solid	5035	
380-4537-26	AH-6 (0-1')	Total/NA	Solid	5035	
380-4537-27	AH-6 (1-1.5')	Total/NA	Solid	5035	
880-4537-28	AH-6 (2-2.5')	Total/NA	Solid	5035	
380-4537-29	AH-6 (3-3.5')	Total/NA	Solid	5035	
880-4537-30	AH-6 (4-4.5')	Total/NA	Solid	5035	
380-4537-31	AH-7 (0-1')	Total/NA	Solid	5035	
380-4537-32	AH-7 (1-1.5')	Total/NA	Solid	5035	
380-4537-33	AH-7 (2-2.5')	Total/NA	Solid	5035	
380-4537-35	AH-7 (4-4.5')	Total/NA	Solid	5035	
380-4537-36	AH-8 (0-1')	Total/NA	Solid	5035	
380-4537-37	AH-8 (1-1.5')	Total/NA	Solid	5035	
380-4537-39	AH-8 (3-3.5')	Total/NA	Solid	5035	
380-4537-40	AH-8 (4-4.5')	Total/NA	Solid	5035	
MB 880-5889/5-A	Method Blank	Total/NA	Solid	5035	
_CS 880-5889/1-A	Lab Control Sample	Total/NA	Solid	5035	
_CSD 880-5889/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
380-4537-21 MS	AH-5 (0-1')	Total/NA	Solid	5035	
880-4537-21 MSD	AH-5 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 5899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4537-1	AH-1 (0-1')	Total/NA	Solid	8021B	5884
880-4537-2	AH-1 (1-1.5')	Total/NA	Solid	8021B	5884
880-4537-3	AH-1 (2-2.5')	Total/NA	Solid	8021B	5884

Client: Tetra Tech, Inc.

Job ID: 880-4537-1

Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 5899 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
380-4537-4	AH-1 (3-3.5')	Total/NA	Solid	8021B	5884
880-4537-5	AH-1 (4-4.5')	Total/NA	Solid	8021B	5884
880-4537-6	AH-2 (0-1')	Total/NA	Solid	8021B	5884
880-4537-7	AH-2 (1-1.5')	Total/NA	Solid	8021B	5884
880-4537-8	AH-2 (2-2.5')	Total/NA	Solid	8021B	5884
880-4537-9	AH-2 (3-3.5')	Total/NA	Solid	8021B	5884
380-4537-10	AH-2 (4-4.5')	Total/NA	Solid	8021B	5884
380-4537-11	AH-3 (0-1')	Total/NA	Solid	8021B	5884
380-4537-12	AH-3 (1-1.5')	Total/NA	Solid	8021B	5884
880-4537-13	AH-3 (2-2.5')	Total/NA	Solid	8021B	5884
380-4537-14	AH-3 (3-3.5')	Total/NA	Solid	8021B	5884
380-4537-15	AH-3 (4-4.5')	Total/NA	Solid	8021B	5884
380-4537-16	AH-4 (0-1')	Total/NA	Solid	8021B	5884
380-4537-17	AH-4 (1-1.5')	Total/NA	Solid	8021B	5884
380-4537-18	AH-4 (2-2.5')	Total/NA	Solid	8021B	5884
880-4537-19	AH-4 (3-3.5')	Total/NA	Solid	8021B	5884
880-4537-20	AH-4 (4-4.5')	Total/NA	Solid	8021B	5884
880-4537-21	AH-5 (0-1')	Total/NA	Solid	8021B	5889
380-4537-22	AH-5 (1-1.5')	Total/NA	Solid	8021B	5889
80-4537-23	AH-5 (2-2.5')	Total/NA	Solid	8021B	5889
880-4537-24	AH-5 (3-3.5')	Total/NA	Solid	8021B	5889
880-4537-25	AH-5 (4-4.5')	Total/NA	Solid	8021B	5889
380-4537-26	AH-6 (0-1')	Total/NA	Solid	8021B	5889
380-4537-27	AH-6 (1-1.5')	Total/NA	Solid	8021B	5889
380-4537-28	AH-6 (2-2.5')	Total/NA	Solid	8021B	5889
880-4537-29	AH-6 (3-3.5')	Total/NA	Solid	8021B	5889
380-4537-30	AH-6 (4-4.5')	Total/NA	Solid	8021B	5889
380-4537-31	AH-7 (0-1')	Total/NA	Solid	8021B	5889
380-4537-32	AH-7 (1-1.5')	Total/NA	Solid	8021B	5889
380-4537-33	AH-7 (2-2.5')	Total/NA	Solid	8021B	5889
380-4537-35	AH-7 (4-4.5')	Total/NA	Solid	8021B	5889
380-4537-36	AH-8 (0-1')	Total/NA	Solid	8021B	5889
380-4537-37	AH-8 (1-1.5')	Total/NA	Solid	8021B	5889
380-4537-39	AH-8 (3-3.5')	Total/NA	Solid	8021B	5889
880-4537-40	AH-8 (4-4.5')	Total/NA	Solid	8021B	5889
MB 880-5884/5-A	Method Blank	Total/NA	Solid	8021B	5884
MB 880-5889/5-A	Method Blank	Total/NA	Solid	8021B	5889
.CS 880-5884/1-A	Lab Control Sample	Total/NA	Solid	8021B	5884
.CS 880-5889/1-A	Lab Control Sample	Total/NA	Solid	8021B	5889
CSD 880-5884/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5884
LCSD 880-5889/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5889
380-4537-1 MS	· · ·	Total/NA	Solid	8021B	5884
	AH-1 (0-1')				
380-4537-1 MSD	AH-1 (0-1')	Total/NA	Solid	8021B	5884
380-4537-21 MS 380-4537-21 MSD	AH-5 (0-1') AH-5 (0-1')	Total/NA Total/NA	Solid Solid	8021B 8021B	5889 5889

Prep Batch: 5900

					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5900/5-A	Method Blank	Total/NA	Solid	5035	

Client: Tetra Tech, Inc. Job ID: 880-4537-1 Project/Site: Ophelia Riser Spill SDG: Lea County, New Mexico

GC VOA

Prep Batch: 5901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4537-34	AH-7 (3-3.5')	Total/NA	Solid	5035	
880-4537-38	AH-8 (2-2.5')	Total/NA	Solid	5035	
MB 880-5901/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5901/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5901/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-4537-34 MS	AH-7 (3-3.5')	Total/NA	Solid	5035	
880-4537-34 MSD	AH-7 (3-3.5')	Total/NA	Solid	5035	

GC Semi VOA

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-4537-1	AH-1 (0-1')	Total/NA	Solid	8015B NM	592
880-4537-2	AH-1 (1-1.5')	Total/NA	Solid	8015B NM	592
880-4537-3	AH-1 (2-2.5')	Total/NA	Solid	8015B NM	592
880-4537-4	AH-1 (3-3.5')	Total/NA	Solid	8015B NM	592
880-4537-5	AH-1 (4-4.5')	Total/NA	Solid	8015B NM	592
880-4537-6	AH-2 (0-1')	Total/NA	Solid	8015B NM	592
880-4537-7	AH-2 (1-1.5')	Total/NA	Solid	8015B NM	592
880-4537-8	AH-2 (2-2.5')	Total/NA	Solid	8015B NM	592
880-4537-9	AH-2 (3-3.5')	Total/NA	Solid	8015B NM	592
880-4537-10	AH-2 (4-4.5')	Total/NA	Solid	8015B NM	592
880-4537-11	AH-3 (0-1')	Total/NA	Solid	8015B NM	592
880-4537-12	AH-3 (1-1.5')	Total/NA	Solid	8015B NM	592
880-4537-13	AH-3 (2-2.5')	Total/NA	Solid	8015B NM	592
880-4537-14	AH-3 (3-3.5')	Total/NA	Solid	8015B NM	592
880-4537-15	AH-3 (4-4.5')	Total/NA	Solid	8015B NM	592
880-4537-16	AH-4 (0-1')	Total/NA	Solid	8015B NM	592
880-4537-17	AH-4 (1-1.5')	Total/NA	Solid	8015B NM	592
880-4537-18	AH-4 (2-2.5')	Total/NA	Solid	8015B NM	592
880-4537-19	AH-4 (3-3.5')	Total/NA	Solid	8015B NM	592
880-4537-20	AH-4 (4-4.5')	Total/NA	Solid	8015B NM	592
880-4537-41	H-1	Total/NA	Solid	8015B NM	592
880-4537-42	H-2	Total/NA	Solid	8015B NM	592
880-4537-43	H-3	Total/NA	Solid	8015B NM	592
880-4537-44	H-4	Total/NA	Solid	8015B NM	592
880-4537-45	H-5	Total/NA	Solid	8015B NM	592
880-4537-46	H-6	Total/NA	Solid	8015B NM	592
880-4537-47	H-7	Total/NA	Solid	8015B NM	592
880-4537-48	H-8	Total/NA	Solid	8015B NM	592
MB 880-5925/1-A	Method Blank	Total/NA	Solid	8015B NM	592
MB 880-5927/1-A	Method Blank	Total/NA	Solid	8015B NM	592
LCS 880-5925/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	592
_CS 880-5927/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	592
_CSD 880-5925/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	592
LCSD 880-5927/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	592
380-4537-1 MS	AH-1 (0-1')	Total/NA	Solid	8015B NM	592
380-4537-1 MSD	AH-1 (0-1')	Total/NA	Solid	8015B NM	592
380-4537-41 MS	H-1	Total/NA	Solid	8015B NM	592
880-4537-41 MSD	H-1	Total/NA	Solid	8015B NM	592

Client: Tetra Tech, Inc.

Job ID: 880-4537-1

Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico

GC Semi VOA

Analysis Batch: 5917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4537-21	AH-5 (0-1')	Total/NA	Solid	8015B NM	5926
880-4537-22	AH-5 (1-1.5')	Total/NA	Solid	8015B NM	5926
880-4537-23	AH-5 (2-2.5')	Total/NA	Solid	8015B NM	5926
880-4537-24	AH-5 (3-3.5')	Total/NA	Solid	8015B NM	5926
880-4537-25	AH-5 (4-4.5')	Total/NA	Solid	8015B NM	5926
880-4537-26	AH-6 (0-1')	Total/NA	Solid	8015B NM	5926
880-4537-27	AH-6 (1-1.5')	Total/NA	Solid	8015B NM	5926
880-4537-28	AH-6 (2-2.5')	Total/NA	Solid	8015B NM	5926
880-4537-29	AH-6 (3-3.5')	Total/NA	Solid	8015B NM	5926
880-4537-30	AH-6 (4-4.5')	Total/NA	Solid	8015B NM	5926
880-4537-31	AH-7 (0-1')	Total/NA	Solid	8015B NM	5926
880-4537-32	AH-7 (1-1.5')	Total/NA	Solid	8015B NM	5926
880-4537-33	AH-7 (2-2.5')	Total/NA	Solid	8015B NM	5926
880-4537-34	AH-7 (3-3.5')	Total/NA	Solid	8015B NM	5926
880-4537-35	AH-7 (4-4.5')	Total/NA	Solid	8015B NM	5926
880-4537-36	AH-8 (0-1')	Total/NA	Solid	8015B NM	5926
880-4537-37	AH-8 (1-1.5')	Total/NA	Solid	8015B NM	5926
880-4537-38	AH-8 (2-2.5')	Total/NA	Solid	8015B NM	5926
880-4537-39	AH-8 (3-3.5')	Total/NA	Solid	8015B NM	5926
880-4537-40	AH-8 (4-4.5')	Total/NA	Solid	8015B NM	5926
MB 880-5926/1-A	Method Blank	Total/NA	Solid	8015B NM	5926
LCS 880-5926/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5926
LCSD 880-5926/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5926
880-4537-21 MS	AH-5 (0-1')	Total/NA	Solid	8015B NM	5926
880-4537-21 MSD	AH-5 (0-1')	Total/NA	Solid	8015B NM	5926

Prep Batch: 5925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-4537-1	AH-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-4537-2	AH-1 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-4537-3	AH-1 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-4537-4	AH-1 (3-3.5')	Total/NA	Solid	8015NM Prep	
880-4537-5	AH-1 (4-4.5')	Total/NA	Solid	8015NM Prep	
880-4537-6	AH-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-4537-7	AH-2 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-4537-8	AH-2 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-4537-9	AH-2 (3-3.5')	Total/NA	Solid	8015NM Prep	
880-4537-10	AH-2 (4-4.5')	Total/NA	Solid	8015NM Prep	
880-4537-11	AH-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-4537-12	AH-3 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-4537-13	AH-3 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-4537-14	AH-3 (3-3.5')	Total/NA	Solid	8015NM Prep	
880-4537-15	AH-3 (4-4.5')	Total/NA	Solid	8015NM Prep	
880-4537-16	AH-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-4537-17	AH-4 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-4537-18	AH-4 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-4537-19	AH-4 (3-3.5')	Total/NA	Solid	8015NM Prep	
880-4537-20	AH-4 (4-4.5')	Total/NA	Solid	8015NM Prep	
MB 880-5925/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5925/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5925/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

2

2

4

0

Ω

9

11

12

Client: Tetra Tech, Inc.

Job ID: 880-4537-1

Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 5925 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4537-1 MS	AH-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-4537-1 MSD	AH-1 (0-1')	Total/NA	Solid	8015NM Prep	

Prep Batch: 5926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4537-21	AH-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-4537-22	AH-5 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-4537-23	AH-5 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-4537-24	AH-5 (3-3.5')	Total/NA	Solid	8015NM Prep	
880-4537-25	AH-5 (4-4.5')	Total/NA	Solid	8015NM Prep	
880-4537-26	AH-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-4537-27	AH-6 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-4537-28	AH-6 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-4537-29	AH-6 (3-3.5')	Total/NA	Solid	8015NM Prep	
880-4537-30	AH-6 (4-4.5')	Total/NA	Solid	8015NM Prep	
880-4537-31	AH-7 (0-1')	Total/NA	Solid	8015NM Prep	
880-4537-32	AH-7 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-4537-33	AH-7 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-4537-34	AH-7 (3-3.5')	Total/NA	Solid	8015NM Prep	
880-4537-35	AH-7 (4-4.5')	Total/NA	Solid	8015NM Prep	
880-4537-36	AH-8 (0-1')	Total/NA	Solid	8015NM Prep	
880-4537-37	AH-8 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-4537-38	AH-8 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-4537-39	AH-8 (3-3.5')	Total/NA	Solid	8015NM Prep	
880-4537-40	AH-8 (4-4.5')	Total/NA	Solid	8015NM Prep	
MB 880-5926/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5926/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5926/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-4537-21 MS	AH-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-4537-21 MSD	AH-5 (0-1')	Total/NA	Solid	8015NM Prep	

Prep Batch: 5927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4537-41	H-1	Total/NA	Solid	8015NM Prep	
880-4537-42	H-2	Total/NA	Solid	8015NM Prep	
880-4537-43	H-3	Total/NA	Solid	8015NM Prep	
880-4537-44	H-4	Total/NA	Solid	8015NM Prep	
880-4537-45	H-5	Total/NA	Solid	8015NM Prep	
880-4537-46	H-6	Total/NA	Solid	8015NM Prep	
880-4537-47	H-7	Total/NA	Solid	8015NM Prep	
880-4537-48	H-8	Total/NA	Solid	8015NM Prep	
MB 880-5927/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5927/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5927/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-4537-41 MS	H-1	Total/NA	Solid	8015NM Prep	
880-4537-41 MSD	H-1	Total/NA	Solid	8015NM Prep	

Client: Tetra Tech, Inc.

Job ID: 880-4537-1

Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico

HPLC/IC

Leach Batch: 5883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-4537-1	AH-1 (0-1')	Soluble	Solid	DI Leach	
880-4537-2	AH-1 (1-1.5')	Soluble	Solid	DI Leach	
880-4537-3	AH-1 (2-2.5')	Soluble	Solid	DI Leach	
880-4537-4	AH-1 (3-3.5')	Soluble	Solid	DI Leach	
880-4537-5	AH-1 (4-4.5')	Soluble	Solid	DI Leach	
880-4537-6	AH-2 (0-1')	Soluble	Solid	DI Leach	
880-4537-7	AH-2 (1-1.5')	Soluble	Solid	DI Leach	
880-4537-8	AH-2 (2-2.5')	Soluble	Solid	DI Leach	
880-4537-9	AH-2 (3-3.5')	Soluble	Solid	DI Leach	
880-4537-10	AH-2 (4-4.5')	Soluble	Solid	DI Leach	
880-4537-11	AH-3 (0-1')	Soluble	Solid	DI Leach	
880-4537-12	AH-3 (1-1.5')	Soluble	Solid	DI Leach	
880-4537-13	AH-3 (2-2.5')	Soluble	Solid	DI Leach	
880-4537-14	AH-3 (3-3.5')	Soluble	Solid	DI Leach	
880-4537-15	AH-3 (4-4.5')	Soluble	Solid	DI Leach	
880-4537-16	AH-4 (0-1')	Soluble	Solid	DI Leach	
880-4537-17	AH-4 (1-1.5')	Soluble	Solid	DI Leach	
880-4537-18	AH-4 (2-2.5')	Soluble	Solid	DI Leach	
880-4537-19	AH-4 (3-3.5')	Soluble	Solid	DI Leach	
880-4537-20	AH-4 (4-4.5')	Soluble	Solid	DI Leach	
MB 880-5883/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5883/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5883/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-4537-1 MS	AH-1 (0-1')	Soluble	Solid	DI Leach	
880-4537-1 MSD	AH-1 (0-1')	Soluble	Solid	DI Leach	
880-4537-11 MS	AH-3 (0-1')	Soluble	Solid	DI Leach	
880-4537-11 MSD	AH-3 (0-1')	Soluble	Solid	DI Leach	

Leach Batch: 5885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
380-4537-21	AH-5 (0-1')	Soluble	Solid	DI Leach	_
380-4537-22	AH-5 (1-1.5')	Soluble	Solid	DI Leach	
380-4537-23	AH-5 (2-2.5')	Soluble	Solid	DI Leach	
380-4537-24	AH-5 (3-3.5')	Soluble	Solid	DI Leach	
380-4537-25	AH-5 (4-4.5')	Soluble	Solid	DI Leach	
380-4537-26	AH-6 (0-1')	Soluble	Solid	DI Leach	
380-4537-27	AH-6 (1-1.5')	Soluble	Solid	DI Leach	
380-4537-28	AH-6 (2-2.5')	Soluble	Solid	DI Leach	
380-4537-29	AH-6 (3-3.5')	Soluble	Solid	DI Leach	
880-4537-30	AH-6 (4-4.5')	Soluble	Solid	DI Leach	
380-4537-31	AH-7 (0-1')	Soluble	Solid	DI Leach	
880-4537-32	AH-7 (1-1.5')	Soluble	Solid	DI Leach	
880-4537-33	AH-7 (2-2.5')	Soluble	Solid	DI Leach	
880-4537-34	AH-7 (3-3.5')	Soluble	Solid	DI Leach	
880-4537-35	AH-7 (4-4.5')	Soluble	Solid	DI Leach	
880-4537-36	AH-8 (0-1')	Soluble	Solid	DI Leach	
880-4537-37	AH-8 (1-1.5')	Soluble	Solid	DI Leach	
880-4537-38	AH-8 (2-2.5')	Soluble	Solid	DI Leach	
880-4537-39	AH-8 (3-3.5')	Soluble	Solid	DI Leach	
80-4537-40	AH-8 (4-4.5')	Soluble	Solid	DI Leach	
MB 880-5885/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

MB 880-5885/1-A Method B

_

3

F

7

_

10

12

13

| | 4

Job ID: 880-4537-1 Client: Tetra Tech, Inc. Project/Site: Ophelia Riser Spill SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 5885 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-5885/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5885/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-4537-21 MS	AH-5 (0-1')	Soluble	Solid	DI Leach	
880-4537-21 MSD	AH-5 (0-1')	Soluble	Solid	DI Leach	
880-4537-31 MS	AH-7 (0-1')	Soluble	Solid	DI Leach	
880-4537-31 MSD	AH-7 (0-1')	Soluble	Solid	DI Leach	

Leach Batch: 5886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4537-41	H-1	Soluble	Solid	DI Leach	
880-4537-42	H-2	Soluble	Solid	DI Leach	
880-4537-43	H-3	Soluble	Solid	DI Leach	
880-4537-44	H-4	Soluble	Solid	DI Leach	
880-4537-45	H-5	Soluble	Solid	DI Leach	
880-4537-46	H-6	Soluble	Solid	DI Leach	
880-4537-47	H-7	Soluble	Solid	DI Leach	
880-4537-48	H-8	Soluble	Solid	DI Leach	
MB 880-5886/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5886/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5886/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-4537-41 MS	H-1	Soluble	Solid	DI Leach	
880-4537-41 MSD	H-1	Soluble	Solid	DI Leach	

Analysis Batch: 5908

Released to Imaging: 10/4/2021 2:29:57 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-4537-1	AH-1 (0-1')	Soluble	Solid	300.0	588
880-4537-2	AH-1 (1-1.5')	Soluble	Solid	300.0	588
880-4537-3	AH-1 (2-2.5')	Soluble	Solid	300.0	588
880-4537-4	AH-1 (3-3.5')	Soluble	Solid	300.0	588
880-4537-5	AH-1 (4-4.5')	Soluble	Solid	300.0	588
880-4537-6	AH-2 (0-1')	Soluble	Solid	300.0	588
880-4537-7	AH-2 (1-1.5')	Soluble	Solid	300.0	588
880-4537-8	AH-2 (2-2.5')	Soluble	Solid	300.0	588
880-4537-9	AH-2 (3-3.5')	Soluble	Solid	300.0	588
880-4537-10	AH-2 (4-4.5')	Soluble	Solid	300.0	588
880-4537-11	AH-3 (0-1')	Soluble	Solid	300.0	588
880-4537-12	AH-3 (1-1.5')	Soluble	Solid	300.0	588
880-4537-13	AH-3 (2-2.5')	Soluble	Solid	300.0	588
880-4537-14	AH-3 (3-3.5')	Soluble	Solid	300.0	588
880-4537-15	AH-3 (4-4.5')	Soluble	Solid	300.0	588
880-4537-16	AH-4 (0-1')	Soluble	Solid	300.0	588
880-4537-17	AH-4 (1-1.5')	Soluble	Solid	300.0	588
880-4537-18	AH-4 (2-2.5')	Soluble	Solid	300.0	588
880-4537-19	AH-4 (3-3.5')	Soluble	Solid	300.0	588
880-4537-20	AH-4 (4-4.5')	Soluble	Solid	300.0	588
MB 880-5883/1-A	Method Blank	Soluble	Solid	300.0	588
LCS 880-5883/2-A	Lab Control Sample	Soluble	Solid	300.0	588
LCSD 880-5883/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	588
880-4537-1 MS	AH-1 (0-1')	Soluble	Solid	300.0	588
880-4537-1 MSD	AH-1 (0-1')	Soluble	Solid	300.0	588
880-4537-11 MS	AH-3 (0-1')	Soluble	Solid	300.0	588

Client: Tetra Tech, Inc.

Job ID: 880-4537-1

Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 5908 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4537-11 MSD	AH-3 (0-1')	Soluble	Solid	300.0	5883

Analysis Batch: 5909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4537-21	AH-5 (0-1')	Soluble	Solid	300.0	5885
880-4537-22	AH-5 (1-1.5')	Soluble	Solid	300.0	5885
880-4537-23	AH-5 (2-2.5')	Soluble	Solid	300.0	5885
880-4537-24	AH-5 (3-3.5')	Soluble	Solid	300.0	5885
880-4537-25	AH-5 (4-4.5')	Soluble	Solid	300.0	5885
880-4537-26	AH-6 (0-1')	Soluble	Solid	300.0	5885
880-4537-27	AH-6 (1-1.5')	Soluble	Solid	300.0	5885
880-4537-28	AH-6 (2-2.5')	Soluble	Solid	300.0	5885
880-4537-29	AH-6 (3-3.5')	Soluble	Solid	300.0	5885
880-4537-30	AH-6 (4-4.5')	Soluble	Solid	300.0	5885
880-4537-31	AH-7 (0-1')	Soluble	Solid	300.0	5885
880-4537-32	AH-7 (1-1.5')	Soluble	Solid	300.0	5885
880-4537-33	AH-7 (2-2.5')	Soluble	Solid	300.0	5885
880-4537-34	AH-7 (3-3.5')	Soluble	Solid	300.0	5885
880-4537-35	AH-7 (4-4.5')	Soluble	Solid	300.0	5885
880-4537-36	AH-8 (0-1')	Soluble	Solid	300.0	5885
880-4537-37	AH-8 (1-1.5')	Soluble	Solid	300.0	5885
880-4537-38	AH-8 (2-2.5')	Soluble	Solid	300.0	5885
880-4537-39	AH-8 (3-3.5')	Soluble	Solid	300.0	5885
880-4537-40	AH-8 (4-4.5')	Soluble	Solid	300.0	5885
MB 880-5885/1-A	Method Blank	Soluble	Solid	300.0	5885
LCS 880-5885/2-A	Lab Control Sample	Soluble	Solid	300.0	5885
LCSD 880-5885/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5885
880-4537-21 MS	AH-5 (0-1')	Soluble	Solid	300.0	5885
880-4537-21 MSD	AH-5 (0-1')	Soluble	Solid	300.0	5885
880-4537-31 MS	AH-7 (0-1')	Soluble	Solid	300.0	5885
880-4537-31 MSD	AH-7 (0-1')	Soluble	Solid	300.0	5885

Analysis Batch: 5944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4537-41	H-1	Soluble	Solid	300.0	5886
880-4537-42	H-2	Soluble	Solid	300.0	5886
880-4537-43	H-3	Soluble	Solid	300.0	5886
880-4537-44	H-4	Soluble	Solid	300.0	5886
880-4537-45	H-5	Soluble	Solid	300.0	5886
880-4537-46	H-6	Soluble	Solid	300.0	5886
880-4537-47	H-7	Soluble	Solid	300.0	5886
880-4537-48	H-8	Soluble	Solid	300.0	5886
MB 880-5886/1-A	Method Blank	Soluble	Solid	300.0	5886
LCS 880-5886/2-A	Lab Control Sample	Soluble	Solid	300.0	5886
LCSD 880-5886/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5886
880-4537-41 MS	H-1	Soluble	Solid	300.0	5886
880-4537-41 MSD	H-1	Soluble	Solid	300.0	5886

Eurofins Xenco, Midland

1

3

4

6

8

40

1 1

13

14

Client: Tetra Tech, Inc. Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico

Client Sample ID: AH-1 (0-1') Date Collected: 07/28/21 00:00

Lab Sample ID: 880-4537-1

Date Received: 07/30/21 13:28

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5884	07/30/21 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/30/21 21:01	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5925	07/31/21 11:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 22:31	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5883	07/30/21 13:56	CH	XEN MID
Soluble	Analysis	300.0		1			5908	08/01/21 00:48	CH	XEN MID

Lab Sample ID: 880-4537-2

Client Sample ID: AH-1 (1-1.5') Date Collected: 07/28/21 00:00

Date Received: 07/30/21 13:28

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5884	07/30/21 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/30/21 21:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5925	07/31/21 11:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 23:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5883	07/30/21 13:56	CH	XEN MID
Soluble	Analysis	300.0		1			5908	08/01/21 01:04	CH	XEN MID

Lab Sample ID: 880-4537-3

Matrix: Solid

Client Sample ID: AH-1 (2-2.5') Date Collected: 07/28/21 00:00

Date Received: 07/30/21 13:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5884	07/30/21 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/30/21 21:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5925	07/31/21 11:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	07/31/21 23:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	5883	07/30/21 13:56	CH	XEN MID
Soluble	Analysis	300.0		1			5908	08/01/21 01:09	CH	XEN MID

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

Lab Sample ID: 880-4537-4

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5884	07/30/21 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/30/21 22:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5925	07/31/21 11:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 00:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5883	07/30/21 13:56	CH	XEN MID
Soluble	Analysis	300.0		1			5908	08/01/21 01:15	CH	XEN MID

Client: Tetra Tech, Inc. Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico

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

Lab Sample ID: 880-4537-5

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5884	07/30/21 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/30/21 22:41	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5925	07/31/21 11:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 00:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5883	07/30/21 13:56	CH	XEN MID
Soluble	Analysis	300.0		1			5908	08/01/21 01:20	CH	XEN MID

Lab Sample ID: 880-4537-6

Matrix: Solid

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

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

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.01 g 5 mL 5884 07/30/21 13:58 MR XEN MID Total/NA 8021B XEN MID Analysis 5 mL 5 mL 5899 07/30/21 23:06 KL 1 Total/NA Prep 8015NM Prep 10.06 q 10 mL 07/31/21 11:14 XEN MID 5925 DM Total/NA 8015B NM XEN MID Analysis 5915 08/01/21 00:57 ΑJ Soluble 5883 XEN MID Leach DI Leach 5.02 g 50 mL 07/30/21 13:56 СН 300.0 Soluble Analysis 1 5908 08/01/21 01:36 CH XEN MID

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5884	07/30/21 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/30/21 23:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5925	07/31/21 11:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 01:17	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5883	07/30/21 13:56	СН	XEN MID
Soluble	Analysis	300.0		1			5908	08/01/21 01:42	CH	XEN MID

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

Date Collected: 07/28/21 00:00

Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-8 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5884	07/30/21 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/30/21 23:56	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5925	07/31/21 11:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 01:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5883	07/30/21 13:56	CH	XEN MID
Soluble	Analysis	300.0		1			5908	08/01/21 01:47	CH	XEN MID

SDG: Lea County, New Mexico

Lab Sample ID: 880-4537-9

Matrix: Solid

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Project/Site: Ophelia Riser Spill

Client: Tetra Tech, Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5884	07/30/21 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 00:21	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5925	07/31/21 11:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 01:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5883	07/30/21 13:56	CH	XEN MID
Soluble	Analysis	300.0		1			5908	08/01/21 01:52	CH	XEN MID

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-10 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5884	07/30/21 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 00:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5925	07/31/21 11:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 02:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5883	07/30/21 13:56	CH	XEN MID
Soluble	Analysis	300.0		1			5908	08/01/21 01:58	CH	XEN MID

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-11 **Matrix: Solid**

Lab Sample ID: 880-4537-12

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5884	07/30/21 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 02:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5925	07/31/21 11:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 03:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5883	07/30/21 13:56	CH	XEN MID
Soluble	Analysis	300.0		1			5908	08/01/21 02:03	CH	XEN MID

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

Date Collected: 07/28/21 00:00

Date Received: 07/30/21 13:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5884	07/30/21 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 02:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5925	07/31/21 11:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 03:22	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5883	07/30/21 13:56	CH	XEN MID
Soluble	Analysis	300.0		1			5908	08/01/21 02:19	CH	XEN MID

Client: Tetra Tech, Inc.

Job ID: 880-4537-1

Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-13

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5884	07/30/21 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 03:17	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5925	07/31/21 11:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 03:43	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5883	07/30/21 13:56	CH	XEN MID
Soluble	Analysis	300.0		1			5908	08/01/21 02:25	CH	XEN MID

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-14

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5884	07/30/21 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 03:42	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5925	07/31/21 11:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 04:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5883	07/30/21 13:56	CH	XEN MID
Soluble	Analysis	300.0		1			5908	08/01/21 02:41	CH	XEN MID

Client Sample ID: AH-3 (4-4.5')

Date Collected: 07/28/21 00:00

Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-15

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5884	07/30/21 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 04:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5925	07/31/21 11:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 04:24	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5883	07/30/21 13:56	CH	XEN MID
Soluble	Analysis	300.0		1			5908	08/01/21 02:46	CH	XEN MID

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

Date Collected: 07/28/21 00:00

Date Received: 07/30/21 13:28

Lab Sample	ID:	880-4537-16
		Matrix, Calid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5884	07/30/21 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 04:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5925	07/31/21 11:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 04:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5883	07/30/21 13:56	СН	XEN MID
Soluble	Analysis	300.0		1			5908	08/01/21 02:52	CH	XEN MID

Client: Tetra Tech, Inc. Project/Site: Ophelia Riser Spill SDG: Lea County, New Mexico

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-17

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5884	07/30/21 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 04:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5925	07/31/21 11:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 05:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5883	07/30/21 13:56	CH	XEN MID
Soluble	Analysis	300.0		1			5908	08/01/21 02:57	CH	XEN MID

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-18

Analyst

Matrix: Solid

Lab

XEN MID

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Total/NA Prep 5035 5.01 g 5 mL 5884 07/30/21 13:58 MR Total/NA 8021B Analysis 5 mL 5 mL 5899 07/31/21 05:23 1

XEN MID KL Total/NA Prep 8015NM Prep 10.02 g 10 mL 07/31/21 11:14 XEN MID 5925 DM Total/NA 8015B NM XEN MID Analysis 5915 08/01/21 05:27 ΑJ XEN MID Soluble Leach DI Leach 5.03 g 50 mL 5883 07/30/21 13:56 СН 300.0 Soluble Analysis 1 5908 08/01/21 03:02 CH XEN MID

Client Sample ID: AH-4 (3-3.5')

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-19

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5884	07/30/21 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 05:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5925	07/31/21 11:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 05:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5883	07/30/21 13:56	СН	XEN MID
Soluble	Analysis	300.0		1			5908	08/01/21 03:08	CH	XEN MID

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-20

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5884	07/30/21 13:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 06:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5925	07/31/21 11:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 06:08	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5883	07/30/21 13:56	CH	XEN MID
Soluble	Analysis	300.0		1			5908	08/01/21 03:13	CH	XEN MID

Client: Tetra Tech, Inc. Project/Site: Ophelia Riser Spill

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

Lab Sample ID: 880-4537-21

Matrix: Solid

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5889	07/30/21 14:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 13:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5926	07/31/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	07/31/21 22:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5885	07/30/21 13:58	CH	XEN MID
Soluble	Analysis	300.0		1			5909	08/01/21 03:56	CH	XEN MID

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

Lab Sample ID: 880-4537-22

Matrix: Solid

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

> Analyst Lab MR XEN MID XEN MID KL XEN MID DM

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Total/NA Prep 5035 5.01 g 5 mL 5889 07/30/21 14:01 Total/NA 8021B 5 mL 5 mL 5899 07/31/21 13:49 Analysis 1 Total/NA Prep 8015NM Prep 10.03 g 10 mL 07/31/21 11:31 5926 Total/NA 8015B NM XEN MID Analysis 5917 07/31/21 23:34 ΑJ XEN MID Soluble Leach DI Leach 5.02 g 50 mL 5885 07/30/21 13:58 СН 300.0 08/01/21 04:12 CH Soluble Analysis 1 5909 XEN MID

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

Lab Sample ID: 880-4537-23

Matrix: Solid

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5889	07/30/21 14:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 14:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5926	07/31/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	07/31/21 23:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5885	07/30/21 13:58	CH	XEN MID
Soluble	Analysis	300.0		1			5909	08/01/21 04:18	CH	XEN MID

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

Lab Sample ID: 880-4537-24

Matrix: Solid

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

- I	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5889	07/30/21 14:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 14:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5926	07/31/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 00:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5885	07/30/21 13:58	CH	XEN MID
Soluble	Analysis	300.0		1			5909	08/01/21 04:23	CH	XEN MID

Client: Tetra Tech, Inc.

Job ID: 880-4537-1

Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico

Client Sample ID: AH-5 (4-4.5')

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-25

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5889	07/30/21 14:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 15:04	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5926	07/31/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 00:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5885	07/30/21 13:58	СН	XEN MID
Soluble	Analysis	300.0		1			5909	08/01/21 04:28	CH	XEN MID

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

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-26

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5889	07/30/21 14:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 15:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5926	07/31/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 00:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5885	07/30/21 13:58	СН	XEN MID
Soluble	Analysis	300.0		1			5909	08/01/21 04:45	CH	XEN MID

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

Date Collected: 07/28/21 00:00

Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-27

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5889	07/30/21 14:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 15:54	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5926	07/31/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 01:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5885	07/30/21 13:58	CH	XEN MID
Soluble	Analysis	300.0		1			5909	08/01/21 04:50	CH	XEN MID

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

Date Collected: 07/28/21 00:00

Date Received: 07/30/21 13:28

Lab Sample	ID:	880-4537-28
------------	-----	-------------

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5889	07/30/21 14:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 16:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5926	07/31/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 01:38	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5885	07/30/21 13:58	CH	XEN MID
Soluble	Analysis	300.0		1			5909	08/01/21 04:55	CH	XEN MID

SDG: Lea County, New Mexico

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

Project/Site: Ophelia Riser Spill

Date Collected: 07/28/21 00:00

Date Received: 07/30/21 13:28

Client: Tetra Tech, Inc.

Lab Sample ID: 880-4537-29

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5889	07/30/21 14:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 16:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5926	07/31/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 01:59	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5885	07/30/21 13:58	СН	XEN MID
Soluble	Analysis	300.0		1			5909	08/01/21 05:01	CH	XEN MID

Client Sample ID: AH-6 (4-4.5')

Lab Sample ID: 880-4537-30 Date Collected: 07/28/21 00:00 **Matrix: Solid**

Date Received: 07/30/21 13:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5889	07/30/21 14:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 17:08	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5926	07/31/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 02:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5885	07/30/21 13:58	CH	XEN MID
Soluble	Analysis	300.0		1			5909	08/01/21 05:06	CH	XEN MID

Client Sample ID: AH-7 (0-1') Lab Sample ID: 880-4537-31

Date Collected: 07/28/21 00:00 **Matrix: Solid** Date Received: 07/30/21 13:28

_	Batch	Batch	Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5889	07/30/21 14:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 18:49	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5926	07/31/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 03:01	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5885	07/30/21 13:58	CH	XEN MID
Soluble	Analysis	300.0		1			5909	08/01/21 05:12	CH	XEN MID

Client Sample ID: AH-7 (1-1.5') Lab Sample ID: 880-4537-32

Date Collected: 07/28/21 00:00 **Matrix: Solid** Date Received: 07/30/21 13:28

	Batch	Batch	Batch	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5889	07/30/21 14:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 19:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5926	07/31/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 03:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5885	07/30/21 13:58	CH	XEN MID
Soluble	Analysis	300.0		1			5909	08/01/21 05:28	CH	XEN MID

Client: Tetra Tech, Inc. Project/Site: Ophelia Riser Spill

Job ID: 880-4537-1 SDG: Lea County, New Mexico

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

Lab Sample ID: 880-4537-33

Date Collected: 07/28/21 00:00 **Matrix: Solid** Date Received: 07/30/21 13:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5889	07/30/21 14:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 19:39	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5926	07/31/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 03:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5885	07/30/21 13:58	CH	XEN MID
Soluble	Analysis	300.0		1			5909	08/01/21 05:33	CH	XEN MID

Client Sample ID: AH-7 (3-3.5') Lab Sample ID: 880-4537-34

Date Collected: 07/28/21 00:00 Matrix: Solid Date Received: 07/30/21 13:28

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.04 g 5 mL 5901 08/01/21 12:00 KL XEN MID Total/NA 8021B XEN MID Analysis 5 mL 5 mL 5862 08/01/21 21:52 KL 1 Total/NA Prep 8015NM Prep 10.03 q 10 mL 07/31/21 11:31 DM XEN MID 5926 Total/NA 8015B NM XEN MID Analysis 5917 08/01/21 04:04 ΑJ Soluble 5885 XEN MID Leach DI Leach 4.96 g 50 mL 07/30/21 13:58 СН 300.0 Soluble Analysis 1 5909 08/01/21 05:49 CH XEN MID

Client Sample ID: AH-7 (4-4.5') Lab Sample ID: 880-4537-35

Date Collected: 07/28/21 00:00 **Matrix: Solid** Date Received: 07/30/21 13:28

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5889	07/30/21 14:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 20:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5926	07/31/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 04:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5885	07/30/21 13:58	CH	XEN MID
Soluble	Analysis	300.0		1			5909	08/01/21 05:55	CH	XEN MID

Client Sample ID: AH-8 (0-1') Lab Sample ID: 880-4537-36 Date Collected: 07/28/21 00:00 Matrix: Solid Date Received: 07/30/21 13:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5889	07/30/21 14:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 20:54	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5926	07/31/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 04:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5885	07/30/21 13:58	CH	XEN MID
Soluble	Analysis	300.0		1			5909	08/01/21 06:00	CH	XEN MID

SDG: Lea County, New Mexico

Project/Site: Ophelia Riser Spill

Date Received: 07/30/21 13:28

Client: Tetra Tech, Inc.

Client Sample ID: AH-8 (1-1.5') Lab Sample ID: 880-4537-37 Date Collected: 07/28/21 00:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5889	07/30/21 14:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 21:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5926	07/31/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 05:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	5885	07/30/21 13:58	CH	XEN MID
Soluble	Analysis	300.0		1			5909	08/01/21 06:05	CH	XEN MID

Client Sample ID: AH-8 (2-2.5')

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Lab Sample ID: 880-4537-38 Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.02 g 5 mL 5901 08/01/21 12:00 KL XEN MID Total/NA 8021B XEN MID Analysis 5 mL 5 mL 5862 08/01/21 22:13 KL 1 Total/NA Prep 8015NM Prep 10.02 g 10 mL 07/31/21 11:31 DM XEN MID 5926 Total/NA 8015B NM XEN MID Analysis 5917 08/01/21 05:27 ΑJ 5885 XEN MID Soluble Leach DI Leach 5.02 g 50 mL 07/30/21 13:58 СН

1

Client Sample ID: AH-8 (3-3.5')

Analysis

300.0

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

Soluble

Lab Sample ID: 880-4537-39

CH

08/01/21 06:11

5909

Matrix: Solid

XEN MID

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5889	07/30/21 14:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 22:08	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5926	07/31/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 05:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5885	07/30/21 13:58	CH	XEN MID
Soluble	Analysis	300.0		1			5909	08/01/21 06:16	CH	XEN MID

Client Sample ID: AH-8 (4-4.5')

Date Collected: 07/28/21 00:00

Date Received: 07/30/21 13:28

Lab Sample	ID:	880-4537-40	
		Matrice Calid	

Matrix: Solid

Batch E	Batch	Dil	Initial	Final	Batch	Prepared				
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5889	07/30/21 14:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5899	07/31/21 22:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5926	07/31/21 11:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 06:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5885	07/30/21 13:58	СН	XEN MID
Soluble	Analysis	300.0		1			5909	08/01/21 06:22	CH	XEN MID

Client: Tetra Tech, Inc. Project/Site: Ophelia Riser Spill

Lab Sample ID: 880-4537-41

Matrix: Solid

Client Sample ID: H-1

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5878	07/30/21 14:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5862	07/31/21 22:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 07:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5886	07/30/21 14:00	СН	XEN MID
Soluble	Analysis	300.0		1			5944	07/31/21 15:21	CH	XEN MID

Client Sample ID: H-2

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-42

Matrix: Solid

Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Prep	5035			5.05 g	5 mL	5878	07/30/21 14:15	KL	XEN MID
Analysis	8021B		1	5 mL	5 mL	5862	07/31/21 22:46	KL	XEN MID
Prep	8015NM Prep			10.03 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Analysis	8015B NM		1			5915	08/01/21 09:07	AJ	XEN MID
Leach	DI Leach			4.96 g	50 mL	5886	07/30/21 14:00	CH	XEN MID
Analysis	300.0		1			5944	07/31/21 15:38	CH	XEN MID
	Type Prep Analysis Prep Analysis Leach	Type Method Prep 5035 Analysis 8021B Prep 8015NM Prep Analysis 8015B NM Leach DI Leach	Type Method Run Prep 5035 Analysis 8021B Prep 8015NM Prep Analysis 8015B NM Leach DI Leach	Type Method Run Factor Prep 5035	Type Method Run Factor Amount Prep 5035 5.05 g Analysis 8021B 1 5 mL Prep 8015NM Prep 10.03 g Analysis 8015B NM 1 Leach DI Leach 4.96 g	Type Method Run Factor Amount Amount Prep 5035 5.05 g 5 mL Analysis 8021B 1 5 mL 5 mL Prep 8015NM Prep 10.03 g 10 mL Analysis 8015B NM 1 4.96 g 50 mL	Type Method Run Factor Amount Amount Number Prep 5035 5.05 g 5 mL 5878 Analysis 8021B 1 5 mL 5 mL 5862 Prep 8015NM Prep 10.03 g 10 mL 5927 Analysis 8015B NM 1 5915 Leach DI Leach 4.96 g 50 mL 5886	Type Method Run Factor Amount Amount Number or Analyzed Prep 5035 5.05 g 5 mL 5878 07/30/21 14:15 Analysis 8021B 1 5 mL 5 mL 5862 07/31/21 22:46 Prep 8015NM Prep 10.03 g 10 mL 5927 07/31/21 11:55 Analysis 8015B NM 1 5915 08/01/21 09:07 Leach DI Leach 4.96 g 50 mL 5886 07/30/21 14:00	Type Method Run Factor Amount Amount Number or Analyzed Analyst Prep 5035 5.05 g 5 mL 5878 07/30/21 14:15 KL Analysis 8021B 1 5 mL 5 mL 5862 07/31/21 22:46 KL Prep 8015NM Prep 10.03 g 10 mL 5927 07/31/21 11:55 DM Analysis 8015B NM 1 5915 08/01/21 09:07 AJ Leach DI Leach 4.96 g 50 mL 5886 07/30/21 14:00 CH

Client Sample ID: H-3

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-43

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5878	07/30/21 14:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5862	07/31/21 23:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 09:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5886	07/30/21 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			5944	07/31/21 15:43	CH	XEN MID

Client Sample ID: H-4

Date Collected: 07/28/21 00:00 Date Received: 07/30/21 13:28 Lab Sample ID: 880-4537-44

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5878	07/30/21 14:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5862	07/31/21 23:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 09:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5886	07/30/21 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			5944	07/31/21 15:49	CH	XEN MID

Eurofins Xenco, Midland

Job ID: 880-4537-1

Client: Tetra Tech, Inc. Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico Lab Sample ID: 880-4537-45 Client Sample ID: H-5

Date Collected: 07/28/21 00:00 Matrix: Solid Date Received: 07/30/21 13:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5878	07/30/21 14:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5862	07/31/21 23:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 10:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5886	07/30/21 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			5944	07/31/21 15:54	CH	XEN MID

Client Sample ID: H-6 Lab Sample ID: 880-4537-46 Matrix: Solid Date Collected: 07/28/21 00:00

Date Received: 07/30/21 13:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5878	07/30/21 14:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5862	08/01/21 00:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 10:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5886	07/30/21 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			5944	07/31/21 16:10	CH	XEN MID

Client Sample ID: H-7 Lab Sample ID: 880-4537-47 Date Collected: 07/28/21 00:00 **Matrix: Solid**

Date Received: 07/30/21 13:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5878	07/30/21 14:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5862	08/01/21 00:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 10:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5886	07/30/21 14:00	СН	XEN MID
Soluble	Analysis	300.0		1			5944	07/31/21 16:16	CH	XEN MID

Client Sample ID: H-8 Lab Sample ID: 880-4537-48 Date Collected: 07/28/21 00:00

Date Received: 07/30/21 13:28

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5878	07/30/21 14:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5862	08/01/21 00:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5915	08/01/21 11:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5886	07/30/21 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			5944	07/31/21 16:21	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Matrix: Solid

Accreditation/Certification Summary

Client: Tetra Tech, Inc. Job ID: 880-4537-1 Project/Site: Ophelia Riser Spill SDG: Lea County, New Mexico

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-20-21	06-30-22
The fellowing analytes	and the first of the first of the first	Contabase Contabase Contabase Co		
the agency does not of	' '	t the laboratory is not certific	ed by the governing authority. This list ma	ay include analytes for
,	' '	t the laboratory is not certifice. Matrix	ed by the governing authority. This list ma	ay include analytes for
the agency does not of	er certification.	,	, , ,	ay include analytes for

Method Summary

Client: Tetra Tech, Inc. Job ID: 880-4537-1 Project/Site: Ophelia Riser Spill

SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Page 77 of 82 Released to Imaging: 10/4/2021 2:29:57 PM

Sample Summary

Client: Tetra Tech, Inc.

Project/Site: Ophelia Riser Spill

Job ID: 880-4537-1 SDG: Lea County, New Mexico

ab Sample ID	Client Sample ID	Matrix	Collected	Received
30-4537-1	AH-1 (0-1')	Solid	07/28/21 00:00	07/30/21 13:28
30-4537-2	AH-1 (1-1.5')	Solid	07/28/21 00:00	07/30/21 13:28
80-4537-3	AH-1 (2-2.5')	Solid	07/28/21 00:00	07/30/21 13:28
80-4537-4	AH-1 (3-3.5')	Solid	07/28/21 00:00	07/30/21 13:28
80-4537-5	AH-1 (4-4.5')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-6	AH-2 (0-1')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-7	AH-2 (1-1.5')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-8	AH-2 (2-2.5')	Solid	07/28/21 00:00	07/30/21 13:28
30-4537-9	AH-2 (3-3.5')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-10	AH-2 (4-4.5')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-11	AH-3 (0-1')	Solid	07/28/21 00:00	07/30/21 13:28
30-4537-12	AH-3 (1-1.5')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-13	AH-3 (2-2.5')	Solid	07/28/21 00:00	07/30/21 13:28
30-4537-14	AH-3 (3-3.5')	Solid	07/28/21 00:00	07/30/21 13:28
80-4537-14	AH-3 (4-4.5')	Solid	07/28/21 00:00	07/30/21 13:28
60-4537-16	AH-4 (0-1')	Solid	07/28/21 00:00	07/30/21 13:28
80-4537-16 80-4537-17	AH-4 (1-1.5')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-18	AH-4 (2-2.5')	Solid	07/28/21 00:00 07/28/21 00:00	07/30/21 13:28 07/30/21 13:28
80-4537-19	AH-4 (3-3.5')	Solid		
0-4537-20	AH-4 (4-4.5')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-21	AH-5 (0-1')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-22	AH-5 (1-1.5')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-23	AH-5 (2-2.5')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-24	AH-5 (3-3.5')	Solid	07/28/21 00:00	07/30/21 13:28
)-4537-25	AH-5 (4-4.5')	Solid	07/28/21 00:00	07/30/21 13:28
)-4537-26	AH-6 (0-1')	Solid	07/28/21 00:00	07/30/21 13:28
)-4537-27	AH-6 (1-1.5')	Solid	07/28/21 00:00	07/30/21 13:28
-4537-28	AH-6 (2-2.5')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-29	AH-6 (3-3.5')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-30	AH-6 (4-4.5')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-31	AH-7 (0-1')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-32	AH-7 (1-1.5')	Solid	07/28/21 00:00	07/30/21 13:28
80-4537-33	AH-7 (2-2.5')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-34	AH-7 (3-3.5')	Solid	07/28/21 00:00	07/30/21 13:28
30-4537-35	AH-7 (4-4.5')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-36	AH-8 (0-1')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-37	AH-8 (1-1.5')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-38	AH-8 (2-2.5')	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-39	AH-8 (3-3.5')	Solid	07/28/21 00:00	07/30/21 13:28
30-4537-40	AH-8 (4-4.5')	Solid	07/28/21 00:00	07/30/21 13:28
80-4537-41	H-1	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-42	H-2	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-43	H-3	Solid	07/28/21 00:00	07/30/21 13:28
30-4537-44	H-4	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-45	H-5	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-46	H-6	Solid	07/28/21 00:00	07/30/21 13:28
30-4537-47	H-7	Solid	07/28/21 00:00	07/30/21 13:28
0-4537-48	H-8	Solid	07/28/21 00:00	07/30/21 13:28

8/2/2021

Page 79 of 82

Common			Relinquished by	Relinquished by:		Relinquished by											(LAB USE)	LAB#		Comments:	Heceiving Laboratory	Invoice to.	Project Location (county, state)	Project Name	Client Name	
Received by Date Time		!	Date	Date		Date	AH-4 (4-4 5')	AH-4 (3-3 5')	AH-4 (2-2 5')	AH-4 (1-1 5')	AH-4 (0-1')	AH-3 (4-4 5')	AH-3 (3-3 5')	AH-3 (2-2 5')	AH-3 (1-1 5')	AH-3 (0-1')		SAMPLE IDENTIFICATION							EOG Resources	Tetra Tech, Inc
Date Time			Beceived by	Received by		Received by:	7/28/2021	7/28/2021	7/28/2021	7/28/2021	7/28/2021	7/28/2021	7/28/2021	7/28/2021	7/28/2021	7/28/2021	DATE	YEAR	SAMPLIN		Sampler Signature		Project #·		Site Manager	
NALLYSIS REQUEST Circle Or Specify Method No.		Ţ		D		D	×	×	×	×	×	×	×	×	×	×	WATER SOIL						212C-N		Brittany L	901 W W: Midlan Tel (4 Fax (4
College HAND DELL'UFE College HAND D							×	×	×	×	×	×	×	×	×	×	HNO ₃		PRESERVATIVE METHOD		Dunbar		MD-02563		ong	all Street, Ste 100 d,Texas 79701 (32) 682-4559 (32) 682-3946
ANALYSIS REQUEST TCLP Volatiles TCLP Volatiles TCLP Semi Volatiles TCLP Semi Volatiles RCI GC/MS Vol 8260B / 624 GC/MS Semi Vol 8270C/625 PCBs 8082 / 608 NORM PLM (Asbestos) Or TRAP Report Limits or TRAP Repor							_1	_1	1		1	1		1		1	FILTERE	D (Y	/N)							
ANALYSIS REQUEST REMARKS: RUSH Same Day ANALYSIS REQUEST ROBERT Secretary Character Secretary Control of the control of th	HAH			sample Temperature	ONLY	באם באר										×	TPH TX16 TPH 8015 PAH 8270	005 (5M (DC	Ext to GRO	C35) DRO - O	RO M				<u> </u>	
GC/MS Semi Vol 8270C/625 Ty Method PCB s 8082 / 608 PCB s 8082	.,	Spec	Rush			REMARKS:											TCLP Vola TCLP Sem RCI	itiles ni Vo	latiles		Pb Se I	Hg		으	ξ	
THRP He po Tive to the point of	IIPS Tracking	ial Report Limits	Charges Autho														GC/MS Se PCBs 808 NORM	mi \ 32 / 6	/ol 82 608						` ヱ	
	1#	or TRRP Repor	rized	ACCESSORY			×	×	×	×	×	×	×	×	×		Chloride General W	/ater	Chen	nistry (se	e attac	hed list	t)		*	

ு 3/2/2021

Released to Imaging: 10/4/2021 2:29:57 PM

ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-4537-1

SDG Number: Lea County, New Mexico

List Source: Eurofins Xenco, Midland

Login Number: 4537 List Number: 1 Creator: Teel, Brianna

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	True	
tampered with.		
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	

Eurofins Xenco, Midland



August 27, 2021

BRITTANY LONG
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: OPHELIA RISER SPILL

Enclosed are the results of analyses for samples received by the laboratory on 08/26/21 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

 Received:
 08/26/2021
 Sampling Date:
 08/26/2021

 Reported:
 08/27/2021
 Sampling Type:
 Soil

Fax To:

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

A ... - L ... - - - I D. .. MC

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 20 (5.5') (H212304-01)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.87	93.4	2.00	0.295	
Toluene*	<0.050	0.050	08/26/2021	ND	2.01	101	2.00	0.289	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.94	97.1	2.00	0.266	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.86	97.6	6.00	0.487	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	96.8	200	1.17	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	203	101	200	3.75	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	86.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	78.8	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celeg & Freene



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/26/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 17 (3') (H212304-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.87	93.4	2.00	0.295	
Toluene*	<0.050	0.050	08/26/2021	ND	2.01	101	2.00	0.289	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.94	97.1	2.00	0.266	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.86	97.6	6.00	0.487	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	96.8	200	1.17	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	203	101	200	3.75	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	85.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	79.8	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/26/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 22 (2') (H212304-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.87	93.4	2.00	0.295	
Toluene*	<0.050	0.050	08/26/2021	ND	2.01	101	2.00	0.289	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.94	97.1	2.00	0.266	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.86	97.6	6.00	0.487	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	96.8	200	1.17	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	203	101	200	3.75	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	79.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	70.1	% 38.9-14	22						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/25/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 8 (2') (H212304-04)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.87	93.4	2.00	0.295	
Toluene*	<0.050	0.050	08/26/2021	ND	2.01	101	2.00	0.289	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.94	97.1	2.00	0.266	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.86	97.6	6.00	0.487	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	96.8	200	1.17	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	203	101	200	3.75	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	75.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	71.4	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/25/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 16 (2') (H212304-05)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.87	93.4	2.00	0.295	
Toluene*	<0.050	0.050	08/26/2021	ND	2.01	101	2.00	0.289	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.94	97.1	2.00	0.266	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.86	97.6	6.00	0.487	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	96.8	200	1.17	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	203	101	200	3.75	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	83.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	76.2	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/25/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 18 (2') (H212304-06)

RTFY 8021R

B1EX 8021B	mg/	кg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.87	93.4	2.00	0.295	
Toluene*	<0.050	0.050	08/26/2021	ND	2.01	101	2.00	0.289	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.94	97.1	2.00	0.266	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.86	97.6	6.00	0.487	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	96.8	200	1.17	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	203	101	200	3.75	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	83.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	74.7	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celeg & Frence



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/25/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 19 (4.5') (H212304-07)

BTEX 8021B

	<u> </u>			,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.87	93.4	2.00	0.295	
Toluene*	<0.050	0.050	08/26/2021	ND	2.01	101	2.00	0.289	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.94	97.1	2.00	0.266	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.86	97.6	6.00	0.487	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	96.8	200	1.17	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	203	101	200	3.75	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	86.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	79.5	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/25/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 21 (4.5') (H212304-08)

BTEX 8021B

	9/	9	71.14.17.20						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.87	93.4	2.00	0.295	
Toluene*	<0.050	0.050	08/26/2021	ND	2.01	101	2.00	0.289	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.94	97.1	2.00	0.266	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.86	97.6	6.00	0.487	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	96.8	200	1.17	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	203	101	200	3.75	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	85.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	77.7	% 38.9-14	22						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 08/26/2021 Sampling Date: 08/26/2021

Reported: 08/27/2021 Sampling Type: Soil

Fax To:

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: EOG RESOURCES - LEA CO NM

ma/ka

Sample ID: SW - 3 (H212304-09)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	ea By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.99	99.5	2.00	5.84	
Toluene*	<0.050	0.050	08/26/2021	ND	1.99	99.4	2.00	5.28	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.00	100	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.05	101	6.00	3.43	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	85.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	77.3	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celeg & Freene



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/26/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: EOG RESOURCES - LEA CO NM

ma/ka

Sample ID: SW - 10 (H212304-10)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	ea By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.99	99.5	2.00	5.84	
Toluene*	<0.050	0.050	08/26/2021	ND	1.99	99.4	2.00	5.28	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.00	100	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.05	101	6.00	3.43	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	85.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	74.9	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/25/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: SW - 19 (H212304-11)

BTEX 8021B	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.99	99.5	2.00	5.84	
Toluene*	<0.050	0.050	08/26/2021	ND	1.99	99.4	2.00	5.28	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.00	100	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.05	101	6.00	3.43	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	85.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	74.8	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/25/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: SW - 1 (H212304-12)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.99	99.5	2.00	5.84	
Toluene*	<0.050	0.050	08/26/2021	ND	1.99	99.4	2.00	5.28	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.00	100	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.05	101	6.00	3.43	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	86.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	74.1	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/25/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: EOG RESOURCES - LEA CO NM

ma/ka

Sample ID: SW - 2 (H212304-13)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	ea By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.99	99.5	2.00	5.84	
Toluene*	<0.050	0.050	08/26/2021	ND	1.99	99.4	2.00	5.28	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.00	100	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.05	101	6.00	3.43	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	79.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	71.0	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/25/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: ms

Project Location: EOG RESOURCES - LEA CO NM

mg/kg

Sample ID: SW - 8 (H212304-14)

BTEX 8021B

	9,	9	7	7:					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.99	99.5	2.00	5.84	
Toluene*	<0.050	0.050	08/26/2021	ND	1.99	99.4	2.00	5.28	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.00	100	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.05	101	6.00	3.43	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	81.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	73.3	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/25/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: ms

Project Location: EOG RESOURCES - LEA CO NM

mg/kg

Sample ID: SW - 9 (H212304-15)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Allulyzo	a by. ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.99	99.5	2.00	5.84	
Toluene*	<0.050	0.050	08/26/2021	ND	1.99	99.4	2.00	5.28	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.00	100	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.05	101	6.00	3.43	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	88.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	78.9	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/25/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: EOG RESOURCES - LEA CO NM

ma/ka

Sample ID: SW - 11 (H212304-16)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.99	99.5	2.00	5.84	
Toluene*	<0.050	0.050	08/26/2021	ND	1.99	99.4	2.00	5.28	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.00	100	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.05	101	6.00	3.43	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	82.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	79.8	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey & Keene



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/25/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: EOG RESOURCES - LEA CO NM

ma/ka

Sample ID: SW - 12 (H212304-17)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.99	99.5	2.00	5.84	
Toluene*	<0.050	0.050	08/26/2021	ND	1.99	99.4	2.00	5.28	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.00	100	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.05	101	6.00	3.43	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	87.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	76.0	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celeg & Freene



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/25/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: SW - 14 (H212304-18)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.99	99.5	2.00	5.84	
Toluene*	<0.050	0.050	08/26/2021	ND	1.99	99.4	2.00	5.28	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.00	100	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.05	101	6.00	3.43	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	86.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	78.5	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/25/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: SW - 15 (H212304-19)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.99	99.5	2.00	5.84	
Toluene*	<0.050	0.050	08/26/2021	ND	1.99	99.4	2.00	5.28	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.00	100	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.05	101	6.00	3.43	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	83.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	76.0	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/25/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: SW - 16 (H212304-20)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.99	99.5	2.00	5.84	
Toluene*	<0.050	0.050	08/26/2021	ND	1.99	99.4	2.00	5.28	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.00	100	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.05	101	6.00	3.43	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	83.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	74.2	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/25/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: EOG RESOURCES - LEA CO NM

ma/ka

Sample ID: SW - 17 (H212304-21)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2021	ND	1.99	99.5	2.00	5.84	
Toluene*	<0.050	0.050	08/26/2021	ND	1.99	99.4	2.00	5.28	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.00	100	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.05	101	6.00	3.43	
Total BTEX	<0.300	0.300	08/26/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	75.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	65.8	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 08/26/2021 Sampling Date: 08/25/2021

Reported: 08/27/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: SW - 18 (H212304-22)

BTEX 8021B	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2021	ND	1.99	99.5	2.00	5.84	
Toluene*	<0.050	0.050	08/27/2021	ND	1.99	99.4	2.00	5.28	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.00	100	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.05	101	6.00	3.43	
Total BTEX	<0.300	0.300	08/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/27/2021	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					
Surrogate: 1-Chlorooctane	79.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	76.6	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C
 Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Freene

Cardinal Laboratory Sampler Signature: SampLing SampLing Matrix Preservative Myles Taylor Sampler Signature: Myles Taylor Preservative Matrix No Call Call Call Preservative Matrix Preservative Matrix Preservative Matrix Preservative Matrix No Call Preservative Matrix No Call Preservative Matrix No Call	EOG Resources		Tetra Tech, Inc.
PRESERVATIVE Myles Taylor METHOD MET		Site Ma	
MATRIX PRESERVATIVE METHOD WATRIX PRESERVATIVE METHOD WATRIX PRESERVATIVE METHOD WETHOD A X X X X X X X X X X X X X X X X X X		nager:	
e. in the second	Brittany Long	Brittany L	901 W W Midlan Tel (4 Fax (
	ong	ong	901 W Wall Street, Ste 100 Midland,Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946
#CONTAINERS FILTERED (Y/N)			
X X X X X X X X X BTEX 8021B BTEX 8260B TPH TX1005 (Ext to C35)			
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	(Circle		
TCLP Semi Volatiles	or Sp		0.
GC/MS VOI. 626067624	주 문	゜굒ㅣ	
GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos)	Method	REQUEST	
STORY OF THE STORY	od No.		
General Water Chemistry (see attached list) Anion/Cation Balance	0.		
Port 72 hr			

	Relinquished by:	9/3/20 Relinquished by:								332 SW-18	96	26 by SW-16	(LAB USE)	HALASE)			Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Project Name:	Pa Client Name:	
	Date: Time:													SAMPLE IDENTIFICATION				Cardinal Laboratory	EOG Resources/Kevin Black	Lea County, New Mexico	Ophelia Riser Spill	EOG Resources	Tetra Tech, Inc.
	Received by:		Received by:	Received by:							8/25/2021	8/25/2021	2021	DATE	YEAR:	SAMPLING		Sampler Signature:		Project #:		o maia go	Site Manager
		,	WA C											WATER SOIL HCL HNO ₃									
			Date:							×	×	×			?	MATRIX		Myles		212C-		Brittany Long	901 W V Midla Tel (Fax
	Date:			Date:												PRES		Taylor		212C-MD-02563		ong	901 W Wall Street, Ste 100 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946
l	Time:		Time:	Time:						×	X	×	X	ICE		PRESERVATIVE METHOD				563			Ste 100 9701 946
			1400				H	П	_	_	1	_	_	# CONT	# CONTAINERS								
				8										FILTERE							L		
(Circle) HAND DELIVERED	# 1	A W W Sample								×	×	×	×	TPH TX			X 8260 C35)	В					
	LAB USE ONLY Sample Temperature 3.1.6 #1/13			H					×	×	×	×	TPH 801 PAH 827	_	GRO -	- DRO - (r Pb Se Hg Cr Pb Se Hg			_	<u> </u>		
				F										_							(Circle		
ŀ														TCLP Vo						Ba Cd Cr	_	e or	
D FEDEX UPS Tracking #:	REMARKS: X RUSH: Same Day 24 hr 48 hr 7 Rush Charges Authorized Special Report Limits or TRRP Report												TCLP Se	mi V	olatiles						S		
				KS:			1							GC/MS V	ol. 8	3260B /	624					or Specify	
	Charç													GC/MS S			270C/62	5				주 교	
	ort L	jes A	Same Day		-									PCB's 80	162 /	608					— Ne	REQUEST fy Method	
	imits	uthor					Ī							PLM (Ast	oesto	os)						EST	
	rized or TR		(24 hr)		-	19				×	×	×	×	Chloride Chloride	S	ulfate	TDS					d No.	1
	RP F		48 hr											General	Wate	er Che	mistry (s	ee atta	ached li	st)		9	
	Repor				-									Anion/Ca	ation	Baland	ce				_		
	+		72 hr					7															1
							4															Г	Page 2
							1.0	1						44 40								- 1	ı aut 2



August 30, 2021

BRITTANY LONG
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: OPHELIA RISER SPILL

Enclosed are the results of analyses for samples received by the laboratory on 08/27/21 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 08/27/2021 Sampling Date: 08/27/2021

Reported: 08/30/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 13 (4.5') (H212330-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/27/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/30/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					
Surrogate: 1-Chlorooctane	80.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	77.7	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey & Keene



Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 08/27/2021 Sampling Date: 08/27/2021

Reported: 08/30/2021 Sampling Type: Soil

Fax To:

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 02563 Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 14 (4.5') (H212330-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/27/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/30/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					
Surrogate: 1-Chlorooctane	67.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	65.5	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Keine



Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 08/27/2021 Sampling Date: 08/27/2021

Reported: 08/30/2021 Sampling Type: Soil

Fax To:

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 02563 Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 15 (4.5') (H212330-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/27/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/30/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					
Surrogate: 1-Chlorooctane	66.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	63.0	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



08/27/2021

Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 08/27/2021 Sampling Date:

Reported: 08/30/2021 Sampling Type: Soil

Fax To:

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 02563 Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 12 (3.0') (H212330-04)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/27/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/30/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					
Surrogate: 1-Chlorooctane	64.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	61.2	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



08/27/2021

Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 08/27/2021 Sampling Date:

Reported: 08/30/2021 Sampling Type: Soil

Fax To:

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 11 (3.5') (H212330-05)

BTEX 8021B

DILX GOZID	iiig/	, kg	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/27/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/30/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/29/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/29/2021	ND					
Surrogate: 1-Chlorooctane	110	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	105	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 08/27/2021 Sampling Date: 08/27/2021

Reported: 08/30/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 10 (3.0') (H212330-06)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/27/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/30/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					
Surrogate: 1-Chlorooctane	57.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	55.2	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 08/27/2021 Sampling Date: 08/27/2021

Reported: 08/30/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 5 (4.0') (H212330-07)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/27/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	< 0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					
Surrogate: 1-Chlorooctane	60.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	58.4	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 08/27/2021 Sampling Date: 08/27/2021

Reported: 08/30/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 02563 Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 6 (4.0') (H212330-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/27/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/30/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					
Surrogate: 1-Chlorooctane	67.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	64.4	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 08/27/2021 Sampling Date: 08/27/2021

Reported: 08/30/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 7 (4.0') (H212330-09)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/27/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/30/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					
Surrogate: 1-Chlorooctane	62.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	60.8	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 08/27/2021 Sampling Date: 08/27/2021

Reported: 08/30/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 4 (4.0') (H212330-10)

BTEX 8021B

DIEX GOZID	1119/	- Kg	Allulyzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/27/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 5	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					
Surrogate: 1-Chlorooctane	58.0	% 44.3-13.	3						
Surrogate: 1-Chlorooctadecane	55.9	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 08/27/2021 Sampling Date: 08/27/2021

Reported: 08/30/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 3 (4.0') (H212330-11)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/27/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					
Surrogate: 1-Chlorooctane	77.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	73.5	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 08/27/2021 Sampling Date: 08/27/2021

Reported: 08/30/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 02563 Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 2 (4.0') (H212330-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/27/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/30/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					
Surrogate: 1-Chlorooctane	79.9 9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	76.8 9	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 08/27/2021 Sampling Date: 08/27/2021

Reported: 08/30/2021 Sampling Type: Soil

Fax To:

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 1 (4.0') (H212330-13)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/28/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/28/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					
Surrogate: 1-Chlorooctane	81.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	78.5	% 38.9-14	22						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 08/27/2021 Sampling Date: 08/27/2021

Reported: 08/30/2021 Sampling Type: Soil

Fax To:

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 9 (6.0') (H212330-14)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/28/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/28/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					
Surrogate: 1-Chlorooctane	80.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	77.5	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/27/2021 Sampling Date: 08/27/2021

Reported: 08/30/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: EOG RESOURCES - LEA CO NM

mg/kg

Sample ID: SW - 13 (H212330-15)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/28/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/28/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/30/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					
Surrogate: 1-Chlorooctane	104	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	99.8	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 08/27/2021 Sampling Date: 08/27/2021

Reported: 08/30/2021 Sampling Type: Soil

Fax To:

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: EOG RESOURCES - LEA CO NM

ma/ka

Sample ID: SW - 5 (H212330-16)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/28/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/28/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					
Surrogate: 1-Chlorooctane	77.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	74.2	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/27/2021 Sampling Date: 08/27/2021

Reported: 08/30/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: EOG RESOURCES - LEA CO NM

mg/kg

Sample ID: SW - 4 (H212330-17)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/28/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/28/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					
Surrogate: 1-Chlorooctane	80.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	77.5	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 08/27/2021 Sampling Date: 08/27/2021

Reported: 08/30/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: EOG RESOURCES - LEA CO NM

mg/kg

Sample ID: SW - 7 (H212330-18)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/28/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/28/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/30/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					
Surrogate: 1-Chlorooctane	52.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	50.7	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/27/2021 Sampling Date: 08/27/2021

Reported: 08/30/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: EOG RESOURCES - LEA CO NM

ma/ka

Sample ID: SW - 6 (H212330-19)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2021	ND	2.03	102	2.00	4.07	
Toluene*	<0.050	0.050	08/28/2021	ND	2.21	110	2.00	3.61	
Ethylbenzene*	<0.050	0.050	08/28/2021	ND	2.04	102	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/28/2021	ND	6.31	105	6.00	3.41	
Total BTEX	<0.300	0.300	08/28/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/30/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	209	105	200	0.555	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	211	105	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					
Surrogate: 1-Chlorooctane	60.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	57.8	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey & Keene



Notes and Definitions

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Keene

	CD:	linquished by:		elinquished by:	MM/ CAMPIN	distinction.	/0 BH-4 (4.0')	7 BH-7 (4.0°)	0 DH-0 (4.0)	DH-5 (4.0)	DIT-10 (3.0)) DI-12 (3.0)		3 BH-15 (4.5')	Z BH-14 (4.5')	BH-13 (4.5')	(LAB USE ONLY	LAB#	Halaszo		Comments:	Receiving Laboratory:	Invoice to:	(county, state)		Project Name:	Client Name:	ge 1
	Date: Time:				M 5/2/2 1600	Date: Time:						5)	0)	0,1	5")	5')	5')		SAMPLE IDENTIFICATION			Cardinal Laboratory	EOG Resource		Lea County, New Mexico	Ophelia Riser Spill	roo resources	FOG Passuran	Total Tool
	Received by:			Received by:	1	Received by:	8/27/2021	8/27/2021	8/27/2021	8/27/2021	8/27/2021	8/27/2021	8/27/2021	8/27/2021	170711710	8/07/0004	8/27/2021	DATE	YEAR:	SAMPLING		9	EOG Resources/Kevin_Black@eogresources.com	-	Project #:			Site Manager:	
	*			MA WHO	1	3	×	×	×	×	×	×	×	×	×	< 12	-	TIME WATER SOIL					eogresource				Brit		
	Date: Time:		Date Time:	K	1	Date: Time:	×	×	×	×	×		×	×			ŀ	HCL HNO ₃ CE		MATRIX PRESERVATIVE METHOD		Myles Taylor	s.com	C 1 C C- IVID-0 C 303	0100 MD 00500		Brittany Long	Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946	
				121/100	1	-							<u></u>	1		-	+	CONTAI		RS									
to.	#113	0.80	Sample Temperature	ONLY	LAB USE	H						×		×	×		B TI	TEX 802 PH TX10 PH 8015 AH 82700 otal Metals	1B 05 (I M (C C s Ag	BTEX Ext to C GRO - D	35) DRO - OR Cd Cr Pb	Se l	Нg			Circl	* ,		
	Special Rep	Buck Char	X RUSH: 24		KEMAKKS:	DEMARKS											TO TO RO GO	CLP Meta CLP Volat CLP Semi CI C/MS Vol. C/MS Sem	Vola	atiles 60B / 62	24	Se Se	Hg			cle or Specify	ANALYSIS		
	Rush Charges Authorized Special Report Limits or TRRP Report		24 hr			×	×	< >	< >	< >	< >	× >	< >	×	×	×	PC NC PL Ch	DRM M (Asbes loride	tos)	ate T	DS	attec	had list			y Method No.	REQUEST		Page
Veboit	Report												+					ion/Catio			uy (see	attac	ned list)		٠			1 of

	CD:	linquished by:	,	dinquished by:	Nhales To) A similar part of	alinquished by	d-wc/	19 CW-7	1 SW Z	/6 SW-5	/S SW-13	/4 BH-9 (6.0")	. 0		100	(LAB USE)	LAB#	H212330		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)		Project Name:	Client Name:]
	Park, IIIIE.	Date: Time:		Date: 'Time:	12 4/2 m 1600	Date: Time:												SAMPLE IDENTIFICATION			Cardinal Laboratory	EOG Resources/Kevin_Black@eogresources.com		Lea County, New Mexico	Ophelia Riser Spill	EOG Resources	Tetra Tech, Inc.	
	Received by:			Received by:	hum	Received by:	8/27/2021	8/27/2021	8/27/2021	8/27/2021	8/27/2021	8/27/2021	8/27/2021	8/27/2021	8/27/2021	8/27/2021	DATE	YEAR:	SAMPLING		Carrier Cigna	Sampler Signature		Project #:			Site Manager	
				0040		2											TIME		ING		di di	eogreso						
	Date:		Paic.	M AN		Date:	×	×	×	×	×	×	×	×	×	×	WATER SOIL		MATRIX		Myles	ırces.com	1110	2120		Brittany Long	901 W I Midia Tel Fax	
	te: Time:		in in initial	100	della		×	×	×	×	×	×	×	×	×		HCL HNO ₃ ICE		PRESERVATIVE METHOD		Taylor		WID-02000	212C_MD_02563		ong_	901 W Wall Street, Ste 100 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946	
				1600			_	_	1	1			<u>.</u>			_	# CONTA	INE	-									
			Samı	10	×	>	×	×	×	×	×	×	×	× :	×	_	FILTERED			X 8260B								
7	#	0.7	ole ole	9	LAB	7	× ;					× ;					TPH TX10	05 (Ext to (C35)	00.1	ADO)						
,	Ci	Se	Temperature	CIALL	AB USE	F	-	-	-		-		+	+	+		PAH 8270 Total Metal	С						\pm	- î			
			Ö	0		N N	+	-			+	+	#	#	#		TCLP Meta	ls A	g As Ba	a Cd Cr P	Se Se	Hg			Circle			
		R	X RUSH:	3		REMARKS	#	1			1	#	#	#	#	1	TCLP Sem		atiles					1	or S	ANALYSIS		
	becial	ush C	HSU		ć	٦٠	\pm				\pm	\pm	+	\pm	\pm	_	RCI BC/MS Vol	. 82	60B / 6	324				+	Spec	LYSI		
7	Repor	Rush Charges Authorized	24 hr			1	+	+	+		+	+	+	+	+		GC/MS Ser PCB's 808:			70C/625				1	pecify Method	SRE		
-	t imit	Auth				F	+	-			1	1	1	#	#	١	IORM								Met	REQUEST	*	
9	S Or T	pazino				×	< >	× >	× ;	× :	< >	< >	< >	< >	< >	< 0	PLM (Asbes Chloride	stos)						-	hod	TS		Page
	Special Report Limits or TRRP Report					F	+	+	+		+	+	+	+	+	_	hloride Seneral Wa	Sulf		TDS	attor	hed lie	+\	1	No.			0
ropoi	opport.					F	-	-	-		+	+	+	+	+		nion/Catio				attac	ned iis	()		٠			
							+	+	+		+		+	+	+	+								-		- 1		2 of



August 31, 2021

BRITTANY LONG
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: OPHELIA RISER SPILL

Enclosed are the results of analyses for samples received by the laboratory on 08/30/21 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 08/30/2021 Sampling Date: 08/20/2021

Reported: 08/31/2021 Sampling Type: Soil

Fax To:

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

A ... - L ... - - - I D. .. MC

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 1 (ROAD) (H212339-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2021	ND	1.91	95.3	2.00	5.65	
Toluene*	<0.050	0.050	08/30/2021	ND	1.94	97.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/30/2021	ND	1.86	93.2	2.00	4.74	
Total Xylenes*	<0.150	0.150	08/30/2021	ND	5.72	95.4	6.00	4.01	
Total BTEX	<0.300	0.300	08/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/30/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2021	ND	198	99.1	200	4.89	
DRO >C10-C28*	<10.0	10.0	08/30/2021	ND	220	110	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	08/30/2021	ND					
Surrogate: 1-Chlorooctane	80.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	71.1	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey & Keene



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/20/2021

Reported: 08/31/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 2 (ROAD) (H212339-02)

BTEX 8021B

DIEX GOZID	mg/	- Kg	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2021	ND	1.91	95.3	2.00	5.65	
Toluene*	<0.050	0.050	08/30/2021	ND	1.94	97.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/30/2021	ND	1.86	93.2	2.00	4.74	
Total Xylenes*	<0.150	0.150	08/30/2021	ND	5.72	95.4	6.00	4.01	
Total BTEX	<0.300	0.300	08/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2021	ND	198	99.1	200	4.89	
DRO >C10-C28*	<10.0	10.0	08/30/2021	ND	220	110	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	08/30/2021	ND					
Surrogate: 1-Chlorooctane	89.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	79.7	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/20/2021

Reported: 08/31/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 3 (ROAD) (H212339-03)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2021	ND	1.91	95.3	2.00	5.65	
Toluene*	<0.050	0.050	08/30/2021	ND	1.94	97.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/30/2021	ND	1.86	93.2	2.00	4.74	
Total Xylenes*	<0.150	0.150	08/30/2021	ND	5.72	95.4	6.00	4.01	
Total BTEX	<0.300	0.300	08/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/30/2021	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2021	ND	198	99.1	200	4.89	
DRO >C10-C28*	<10.0	10.0	08/30/2021	ND	220	110	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	08/30/2021	ND					
Surrogate: 1-Chlorooctane	89.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.6	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 08/30/2021 Sampling Date: 08/20/2021

Reported: 08/31/2021 Sampling Type: Soil

Fax To:

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: SW - 1 (ROAD) (H212339-04)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2021	ND	1.91	95.3	2.00	5.65	
Toluene*	<0.050	0.050	08/30/2021	ND	1.94	97.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/30/2021	ND	1.86	93.2	2.00	4.74	
Total Xylenes*	<0.150	0.150	08/30/2021	ND	5.72	95.4	6.00	4.01	
Total BTEX	<0.300	0.300	08/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/30/2021	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2021	ND	198	99.1	200	4.89	
DRO >C10-C28*	<10.0	10.0	08/30/2021	ND	220	110	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	08/30/2021	ND					
Surrogate: 1-Chlorooctane	82.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	73.3	% 38.9-14	12						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/20/2021

Reported: 08/31/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C - MD - 02563 Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: SW - 2 (ROAD) (H212339-05)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2021	ND	1.91	95.3	2.00	5.65	
Toluene*	<0.050	0.050	08/30/2021	ND	1.94	97.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/30/2021	ND	1.86	93.2	2.00	4.74	
Total Xylenes*	<0.150	0.150	08/30/2021	ND	5.72	95.4	6.00	4.01	
Total BTEX	<0.300	0.300	08/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/30/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2021	ND	198	99.1	200	4.89	
DRO >C10-C28*	<10.0	10.0	08/30/2021	ND	220	110	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	08/30/2021	ND					
Surrogate: 1-Chlorooctane	86.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	80.3	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/20/2021

Reported: 08/31/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: SW - 3 (ROAD) (H212339-06)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2021	ND	1.91	95.3	2.00	5.65	
Toluene*	<0.050	0.050	08/30/2021	ND	1.94	97.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/30/2021	ND	1.86	93.2	2.00	4.74	
Total Xylenes*	<0.150	0.150	08/30/2021	ND	5.72	95.4	6.00	4.01	
Total BTEX	<0.300	0.300	08/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/30/2021	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2021	ND	198	99.1	200	4.89	
DRO >C10-C28*	<10.0	10.0	08/30/2021	ND	220	110	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	08/30/2021	ND					
Surrogate: 1-Chlorooctane	77.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	68.8	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/20/2021

Reported: 08/31/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C - MD - 02563 Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: SW - 4 (ROAD) (H212339-07)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2021	ND	1.91	95.3	2.00	5.65	
Toluene*	<0.050	0.050	08/30/2021	ND	1.94	97.1	2.00	4.97	
Ethylbenzene*	<0.050	0.050	08/30/2021	ND	1.86	93.2	2.00	4.74	
Total Xylenes*	<0.150	0.150	08/30/2021	ND	5.72	95.4	6.00	4.01	
Total BTEX	<0.300	0.300	08/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/30/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2021	ND	198	99.1	200	4.89	
DRO >C10-C28*	<10.0	10.0	08/30/2021	ND	220	110	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	08/30/2021	ND					
Surrogate: 1-Chlorooctane	77.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	70.6	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Freene



August 31, 2021

BRITTANY LONG
TETRA TECH
901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: OPHELIA RISER SPILL

Enclosed are the results of analyses for samples received by the laboratory on 08/30/21 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH BRITTANY LONG 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 08/30/2021 Sampling Date: 08/30/2021

Reported: 08/31/2021 Sampling Type: Soil

Fax To:

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: SW - 20 (H212347-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTEX	<0.300	0.300	08/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/31/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					
Surrogate: 1-Chlorooctane	83.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	80.4	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celeg & Freene



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/30/2021

Reported: 08/31/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: SW - 21 (H212347-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTEX	<0.300	0.300	08/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/31/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					
Surrogate: 1-Chlorooctane	81.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	78.4	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/30/2021

Reported: 08/31/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: SW - 22 (H212347-03)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTEX	<0.300	0.300	08/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/31/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					
Surrogate: 1-Chlorooctane	78.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	75.3	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/30/2021

Reported: 08/31/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: EOG RESOURCES - LEA CO NM

ma/ka

Sample ID: SW - 23 (H212347-04)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTEX	<0.300	0.300	08/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/31/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					
Surrogate: 1-Chlorooctane	86.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	83.5	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/30/2021

Reported: 08/31/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: EOG RESOURCES - LEA CO NM

mg/kg

Sample ID: SW - 24 (H212347-05)

BTEX 8021B

	<u> </u>			,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTEX	<0.300	0.300	08/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/31/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					
Surrogate: 1-Chlorooctane	87.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	84.3	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/30/2021

Reported: 08/31/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: EOG RESOURCES - LEA CO NM

mg/kg

Sample ID: SW - 25 (H212347-06)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTEX	<0.300	0.300	08/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/31/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					
Surrogate: 1-Chlorooctane	83.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	80.1	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/30/2021

Reported: Sampling Type: Soil 08/31/2021

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C - MD - 02563 Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: SW - 26 (H212347-07)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTEX	<0.300	0.300	08/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/31/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					
Surrogate: 1-Chlorooctane	86.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	83.6	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/30/2021

Reported: 08/31/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Project Number: Tamara Oldaker 212C - MD - 02563 Sample Received By:

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: SW - 27 (H212347-08)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTEX	<0.300	0.300	08/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/31/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					
Surrogate: 1-Chlorooctane	77.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	74.9	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/30/2021

Reported: 08/31/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: SW - 28 (H212347-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTEX	<0.300	0.300	08/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/31/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					
Surrogate: 1-Chlorooctane	82.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	78.9	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/30/2021

Reported: 08/31/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: EOG RESOURCES - LEA CO NM

ma/ka

Sample ID: SW - 29 (H212347-10)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTEX	<0.300	0.300	08/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/31/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					
Surrogate: 1-Chlorooctane	85.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.2	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/30/2021

Reported: 08/31/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C - MD - 02563 Sample Received By:

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 23 (H212347-11)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTEX	<0.300	0.300	08/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/31/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					
Surrogate: 1-Chlorooctane	80.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	77.4	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/30/2021

Reported: 08/31/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C - MD - 02563 Sample Received By:

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 24 (H212347-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTEX	<0.300	0.300	08/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/31/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					
Surrogate: 1-Chlorooctane	79.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	75.9	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/30/2021

Reported: 08/31/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 212C - MD - 02563 Sample Received By:

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 25 (H212347-13)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTEX	<0.300	0.300	08/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/31/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					
Surrogate: 1-Chlorooctane	87.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	85.4	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/30/2021

Reported: 08/31/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02563 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: EOG RESOURCES - LEA CO NM

mg/kg

Sample ID: BH - 26 (H212347-14)

BTEX 8021B

	9/	9	71.14.1,24	= 7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTEX	<0.300	0.300	08/31/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/31/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					
Surrogate: 1-Chlorooctane	86.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	83.8	% 38.9-14	22						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

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

Received: 08/30/2021 Sampling Date: 08/30/2021

Reported: 08/31/2021 Sampling Type: Soil

Project Name: OPHELIA RISER SPILL Sampling Condition: Cool & Intact Project Number: Tamara Oldaker 212C - MD - 02563 Sample Received By:

Project Location: EOG RESOURCES - LEA CO NM

Sample ID: BH - 27 (H212347-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTEX	<0.300 0.300		08/31/2021 ND						
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/31/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					
Surrogate: 1-Chlorooctane	87.5	% 44.3-13.	3						
Surrogate: 1-Chlorooctadecane	84.4 % 38.9-1		2						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Freene

	Relinquished by:	Relinquished by:	Malan	Relinquished by:	9 SW-	- MS 8	7 SW -	7 2 2	347	- W	WC 2	3 -	- ^-	LAB USE)	HOCEICH			Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	100	Client Name:	7	Analysis Request of C
	Date: Time:	Date: Time:	and \$130/21 1650	Date: Time:	28	27	26	10	2 4	74.7		200	200		SAMPLE IDENTIFICATION			dinal Laboratory) G Resources / Kevin	ta County New Mexico	elia Riser Spill	o Resources		Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
ORIGINAL COPY	Received by:	Received by:	lamaxa.	Received by:	8/30/1		8198121	8/30/21	1361	A)50/21	Des 121	8/30/21	8/36/21	DATE	YEAR: 2020	SAMPLING		Myles	Sampler Signature:	112C	B	0,0			
	Date: Time:	Date:	1	AM Date; Time:	×>		\ \ \ \	×	×.	×	×	×	X	HCL HNO ₃ ICE None		MATRIX PRESERVATIVE		Slaylar		- MD - 6256		Eus Long	43318873886	Midland,Texas 79705 Tel (432) 682-4559 Fax	
(Circle) HAND DELIVERED	1.0.	Sample Temperature	-21/650 ONLY	LAB USE	7	1 2		4	41	4	4	1	<i></i>	PAH	80211 TX100 8015M 8270C Metals	(Y/N) B BT 5 (Ext 1 (GRC	to C35 O - DR		Se Hg				ANALYSIS RE		
VERED FEDEX UPS Tracking#	Special Report Limits or TRRP Report	narges Autho		REMARKS: STANDARD										TCLP TCLP RCI GC/M GC/M PCB'	Volati Semi IS Vol. IS Sen S 8083 M	Volatil . 8260 mi. Vol. 2 / 608	B / 62					Circle or specify Method	ST		Page
**	or TRRP Report	zed	24 hr 48 hr 72 hr											Chlo	ride eral W n/Cati	abord concentrations, but	hemis	rDS stry (see	attach	ed list)				Page 1	8 of 19

	Relinquished by:	Relinquished by: Relinquished by:	15,4	13	1/	HOULY)	Project Location: (county, state) invoice to: Receiving Laboratory: Comments:	Client Name: Project Name:	Analysis Req
	by: Date: Time:	Date: Time: Date: Time:	BH-26 BH-27	BH - 24	14 -2	SAMPLE IDENTIFICATION	ta County, New Mexico	Pols Resources	Analysis Request of Chain of Custody Record Tetra Tech, Inc.
ORIGINAL COPY	Received by: Date: Time:	Received by: Received by: Date: Time: Date: Time:	\$/20/21 \$/ X	8/30/21 X	\$30/a	DATE WATER SOIL HCL HNO ₃ ICE None # CONTAINERS FILTERED (Y/N)	\$2563 VAOK	Site Manager: Britany Long	90/W Wall Street, Sie 100 Mildend,Texas 79705 Tel (432) 682-4559 Fax
(Circle) HAND DELIVERED FEDEX OF S Hawaring #:	П	LAB USE ONLY Sample Temperature REMARKS: STANDARD STANDARD A8 hr 72 hr Rush Charges Authorized			× × × × × × × × × × × × × × × × × × ×	BTEX 8021B B TPH TX1005 (Exi TPH 8015M (GR PAH 8270C Total Metals Ag A TCLP Metals Ag A TCLP Volatiles TCLP Semi Volat RCI GC/MS Vol. 8266 GC/MS Semi. Vo PCB's 8082 / 60 NORM PLM (Asbestos) Chloride Chloride Sulfa	BTEX 8260B It to C35) RO - DRO - ORO - MRO) As Ba Cd Cr Pb Se Hg As Ba Cd Cr Pb Se Hg Itiles BB / 624 BB / 624 BB / 625 BB / 625 BB / 626 BB / 627 BB / 627 BB / 628	ANALYSIS REQUEST (Circle or Specify Method No.)	Page Page 19 of 19

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

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 46409

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267 Midland, TX 79702	Action Number: 46409
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date				
chensley	None	10/4/2021				