

SITE INFORMATION

Report Type: Closure Report 1R-4690 / nOY1712541751

General Site Information:

Site:	Manda B Tract C Tank Battery					
Company:	JR Oil					
Section, Township and Range	Unit C	Sec. 28	T 22S	R 37E		
Lease Number:						
County:	Lea County, NM					
GPS:	32.368859			-103.169723		
Surface Owner:	Private					
Mineral Owner:	Private					
Directions:	From intersection of HWY 18 and King Rd, head West on King Rd and follow for 0.56 miles. Turn right (North) on lease road and follow for 0.48 miles. Location is on left					

Release Data:

Date Released:	4/26/2017
Type Release:	Oil and Produced Water
Source of Contamination:	Failed Check Valve
Fluid Released:	4 bbls oil & 10 bbls water
Fluids Recovered:	4.5 bbls oil & water

Official Communication:

Name:	Joe Tippy		Clair Gonzales
Company:	JR OIL LTD		Tetra Tech
Address:	PO Box 2975		901 W. Wall St.
			Ste 100
City:	Hobbs, New Mexico 88241		Midland, Texas, 79701
Phone number:	(575) 390 - 1280		(432) 682-4559
Fax:			
Email:	JoeTippy@valornet.com		clair.gonzales@tetrattech.com

Site Characterization

Depth to Groundwater:	At 0.50 miles from site depth of groundwater is 60.46' ft, 02.09.2023, USGS
Karst Potential:	Low

Recommended Remedial Action Levels (RRALs)

Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	Chlorides
10 mg/kg	50 mg/kg	1,000 mg/kg	2,500 mg/kg	10,000 mg/kg



August 14, 2024

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

**RE: Remediation Closure Report
JR Oil LTD
Myers Langlie Mattix Unit Sat #2
Lea County, New Mexico
nAPP2128751635**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contracted by JR Oil LTD (JR Oil) to assess a release that occurred at the Myers Langlie Mattix Unit Sat #2, Unit P, Section 25, Township 23 South, Range 26 East, Lea County, New Mexico (Site). The spill site coordinates are 32.2634272°, -103.2135886°. The site location is shown on **Figures 1 and 2**.

Background

According to the State of New Mexico C-141 Initial Report, the release at the Site was caused by the plugged trunk line causing an overpressure event, causing the release of 10 barrels (bbls) of oil and 240 bbls of produced water. The release flowed alongside the lease road and migrated into the adjacent pasture. Additionally, 9.0 bbls of oil and 239 produced water were recovered from the release. On September 30, 2021, the release was discovered. On October 2, 2021, the release was reported to the New Mexico Oil Conservation Division (NMOCD). The C-141 is shown in **Appendix A**.

Site Characterization

Significant Water Features

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

Significant Boundaries

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

Groundwater Review



Groundwater research was completed for the site through the USGS (United States Geological Survey) National Water Information System and New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System. Groundwater research conducted through these two resources, show the three closest water wells within a 1.0-mile radius of the Site. The well reported on the USGS National Water Information System reports a total depth of 263 ft bgs and measured water level of 119.21 ft bgs and is approximately 0.71 miles of the Site. The well reported on the NMOSE Water Rights Reporting Systems reports a total depth of 190 ft bgs and a measured water level of 87.00 ft bgs and is approximately 0.39 miles of the Site. The groundwater information is shown in **Appendix B**.

Distance from Site	Date of Data	Resource of Information	Depth of Well	Depth to Water
0.71 Miles	02/09/2023	USGS	263'	119.21'
0.39 Miles	09/06/2010	NMOSE	190'	87.00'

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 July 18, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL for TPH, beyond the top 4.0' of soil, is 2,500 mg/kg (GRO + DRO + ORO) and 1,000 mg/kg (DRO + GRO). Additionally, based on the site characterization, the proposed RRAL for chlorides, beyond the top 4.0' of soil, is 10,000 mg/kg.

Site Assessment Activities

Initial Site Assessment Activities

Tetra Tech conducted site assessment activities on May 31, 2023. A total of nine (9) exploratory bores (AH-1 through AH-9) were installed to depths ranging from surface to 1.5 ft bgs, to attempt to assess the investigative area. Deeper samples were not collected from all exploratory bores (AH-1 through AH-9) due to dense geological formation. Additionally, a total of ten (10) horizontals (H-1 through H-10) were installed to total depths of 1.0 ft bgs, to assess the soil directly outside of the investigative area. The impact and sample locations are shown on **Figure 3**.

The samples were submitted to Eurofins Laboratories in Midland, Texas and Cardinal Laboratories in Hobbs, New Mexico to be analyzed for TPH by method 8015 modified, BTEX by method 8021B, and Chloride by EPA Method 300.0 or Method SM 4500. The analytical results are summarized in **Table 1** and the analytical laboratory reports are included in **Appendix C**.

Referring to Table 1, exploratory bores (AH-1 through AH-9) did not indicate benzene, BTEX, or Chloride concentrations above reclamation standards. However, exploratory bores (AH-1 through AH-3, and AH-7 through AH-9) indicated TPH concentrations above reclamation standards, with concentrations ranging from 149 mg/kg to 1,420 mg/kg, at depths ranging from



surface to 1.5 ft bgs. Additionally, horizontal borings (H-1 through H-8) indicated chloride, TPH, benzene, and BTEX concentrations below reclamation standards.

Additional Site Assessment Activities

On January 11, 2024, and January 17, 2024, a total of seven (7) delineation trenches (T-1 through T-7) were installed to total depths ranging from 4.0 ft bgs to 14.0 ft bgs in the areas of exploratory bores (AH-1 through AH-3, and AH-6 through AH-9), where auger refusal was encountered during the initial delineation assessment activities, to attempt to fully delineate the determined release impacted area. The impact and sample locations are shown on **Figure 3**.

The samples were submitted to Eurofins Laboratories in Midland, Texas and Cardinal Laboratories in Hobbs, New Mexico to be analyzed for TPH by method 8015 modified, BTEX by method 8021B, and Chloride by EPA Method 300.0 or Method SM 4500. The analytical results are summarized in **Table 2** and the analytical laboratory reports are included in **Appendix C**.

Referring to Table 1, vertical delineation trenches (T-1 through T-7) indicated benzene, BTEX, and TPH concentrations below reclamation standards. However, trench (T-3) indicated chloride concentrations above reclamation standards, ranging from 768 mg/kg to 1,040 mg/kg at depths ranging from surface to 4.0 ft bgs. Vertical delineation was found in all trenches (T-1 through T-7), for all constituents.

Remediation Activities

JR Oil conducted remediation activities from January 11, 2024 to March 29, 2024. The areas of determined impact were excavated to total depths ranging from 1.0 ft bgs to 4.0 ft bgs. Additionally, a superficial scrape was conducted of the investigative area that reported all constituents below reclamation standards for housekeeping purposes. The excavation areas and depths are shown on **Figure 4A** and **Figure 4B**.

Following remediation activities, Tetra Tech conducted confirmation sampling by collecting 5-point composite bottom hole samples and 5-point composite sidewall samples every 200 square feet within the excavation. All confirmation samples are collected as a composite 5-point die pattern to ensure a representative sample of sidewalls and floor of the excavation are collected. Additionally, a C-141N was filed for the sampling notification as well, and is attached along with the final C-141 in **Appendix A**. However, two (2) of the four (4) sampling notifications were not placed correctly due to misunderstanding of the December 1, 2023 Process Updates Notice implementation process. A total of twenty-nine (29) bottom holes (BH-1 through BH-29) were collected and a total of nineteen (19) sidewalls (SW-1 through SW-19) were collected to confirm full removal of the impacted soil. The confirmation soil samples were submitted to Eurofins Laboratories in Midland, Texas and Cardinal Laboratories in Hobbs, New Mexico to be analyzed for TPH by method 8015 modified, BTEX by method 8021B, and Chloride by EPA Method 300.0 or Method SM 4500. The analytical results are summarized in **Table 3** and the analytical laboratory reports are included in **Appendix C**.

Regarding all final samples collected from the excavation, analytical results indicated benzene, BTEX, TPH, and chloride concentrations were below the reclamation standards for all excavated areas with depths less than 4.0 ft bgs, and below RRALs for all excavation areas with depths of 4.0 ft bgs.



Conclusions

Based on the C-141's (nAPP2128751635) and information provided by JR Oil, Tetra Tech performed site characterization and groundwater research to determine groundwater depth, proximity from significant water features, and proximity from specified populated entities to determine RRALs and assess the impacted area. Based on the *OCD Guidelines for Remediation of Leaks, Spills, and Releases*, updated July 18, 2023, according to the groundwater data found during research activities, for soil beyond the top 4.0 ft, RRALs of 10,000 mg/kg for chlorides and 2,500 mg/kg for total TPH were followed. Based on Tetra Tech assessment activities, exploratory bores (AH-1 through AH-3, and AH-7 through AH-9) indicated TPH concentrations above reclamation standards and trench (T-3) indicated chloride concentrations above reclamation standards.

Following remediation of the areas of impact, Tetra Tech conducted confirmation soil sampling of the area by collecting 5-point composite confirmation bottom hole and sidewall samples to ensure the impacted soil was fully removed. Approximately 977 cubic yards total of impacted soil was removed and properly disposed of. The area was backfilled with clean to surface grade material. The analytical results indicated all confirmation samples reported below the reclamation standards for all excavated areas with depths less than 4.0 ft bgs, and below RRALs for all excavation areas with depths of 4.0 ft bgs, for all constituents.

The disturbed area was approximately 7,170 square feet and following future reclamation of the area, the site will be seeded with seed mix appropriate for sites with loamy fine sand to sandy clay loam soil composition. Revegetation of the site will be monitored, following the rain season (March through June) and if vegetation has not progressed, the site will be reseeded as needed to meet the requirement of 50 percent life-form coverage and at least 70 percent plant cover based on pre-disturbed levels, as stated by the NMOCD. Following the proper vegetation of the site, a vegetation report will be submitted to prove restoration of the site and will request full closure. The soil survey data is shown **Appendix D**.

Based on this information, it is recommended that the remediated pad at this Site requires no further action. The C-141 is included in **Appendix A**.

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

Respectfully submitted,
TETRA TECH

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

Brittany Long,
Project Manager

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

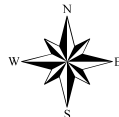
Clair Gonzales, P.G.
Senior Project Manager



Figures



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Midland, Texas 79701
Phone: (432) 682-4559



0 10,000 20,000
Approximate Scale in Feet

OVERVIEW MAP

**MYERS LANGLIE MATTIX
UNIT SATELLITE #2**

LEA COUNTY, NEW MEXICO
(32.263651°, -103.212925°)

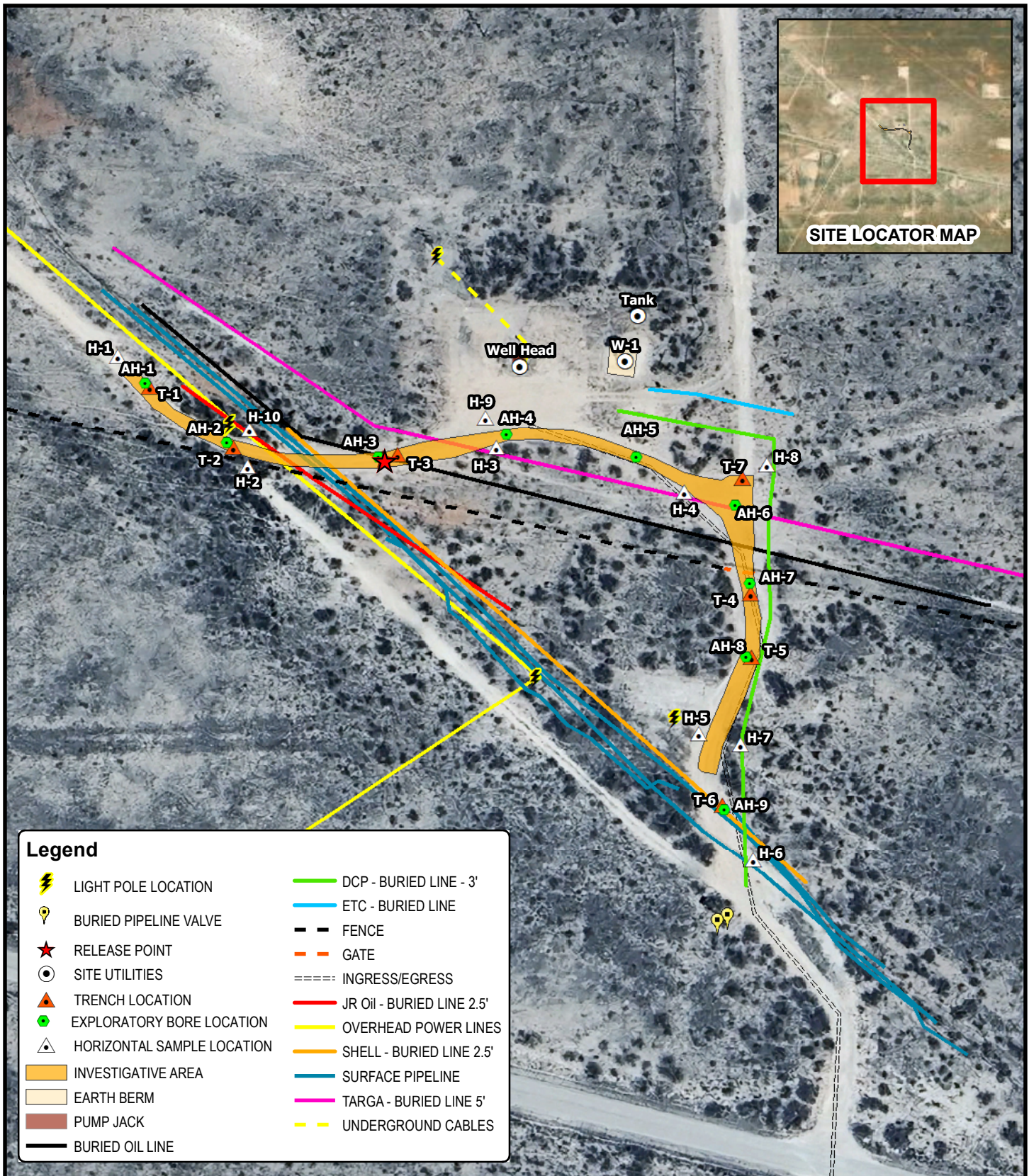
PROJECT NO.: 212C-MD-03133

DATE: MAY 15, 2024

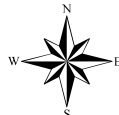
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Figure No.

1



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0 50 100
Approximate Scale in Feet

SITE ASSESSMENT MAP
MYERS LANGLIE MATTIX
UNIT SATELLITE #2

LEA COUNTY, NEW MEXICO
(32.263651°, -103.212925°)

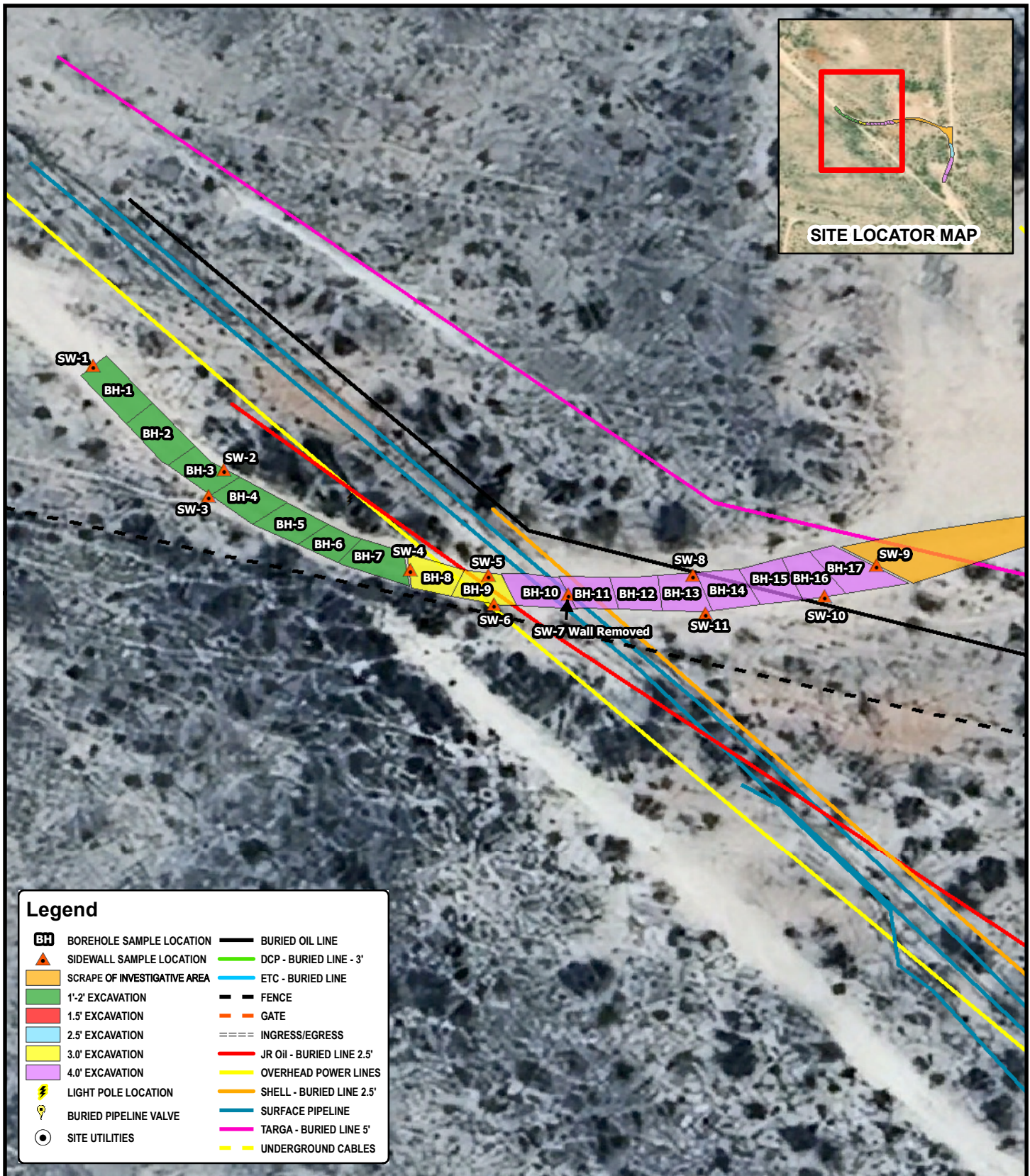
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DATE: SEPTEMBER 19, 2024

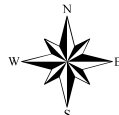
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Figure No.

3



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0 20 40
Approximate Scale in Feet

EXCAVATION AREA MAP MYERS LANGLIE MATTIX UNIT SATELLITE #2

LEA COUNTY, NEW MEXICO
(32.263651°, -103.212925°)

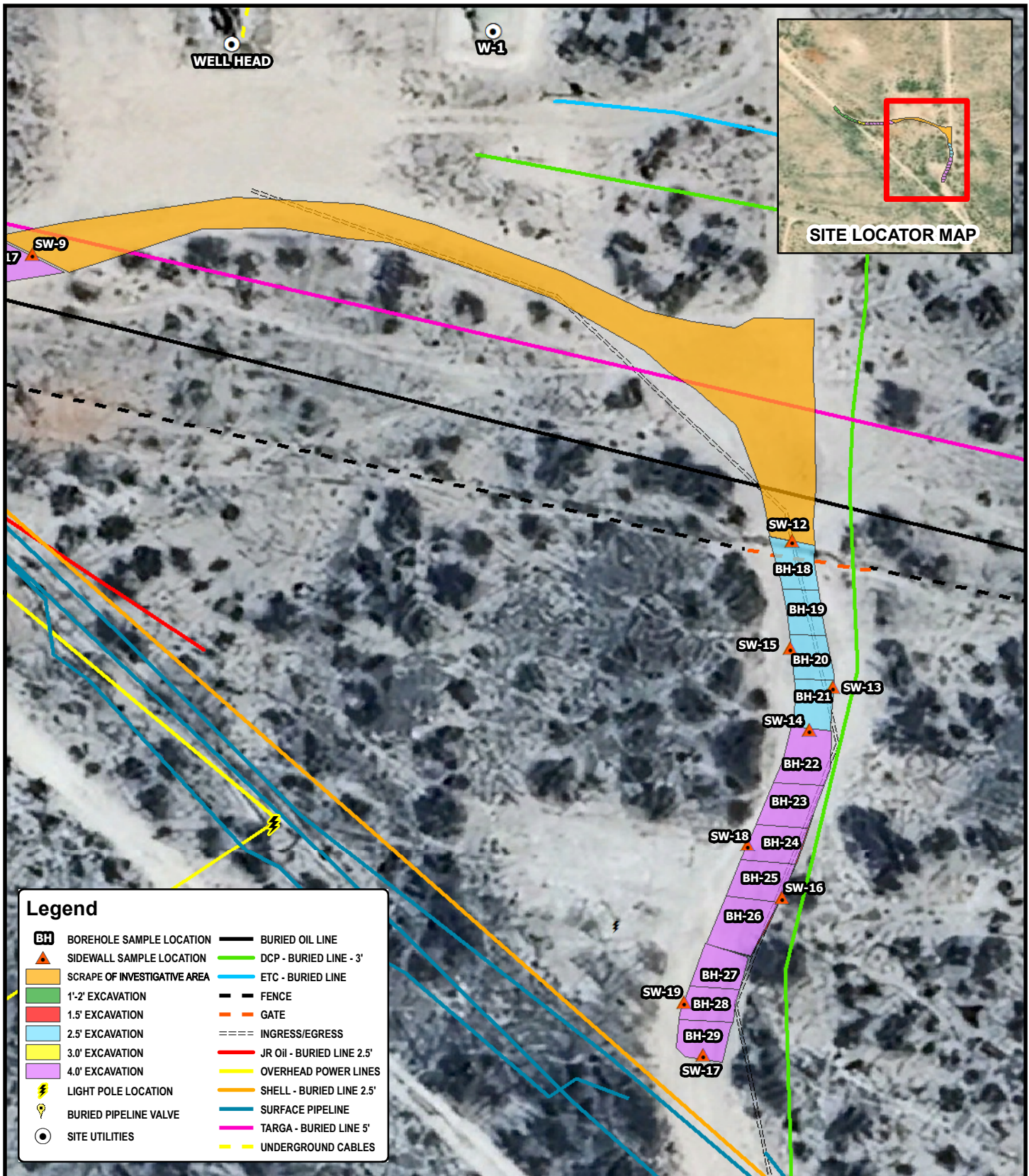
PROJECT NO.: 212C-MD-03133

DATE: MAY 15, 2024

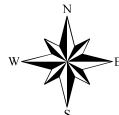
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Figure No.

4A



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0 20 40
Approximate Scale in Feet

EXCAVATION AREA MAP MYERS LANGLIE MATTIX UNIT SATELLITE #2

LEA COUNTY, NEW MEXICO
(32.263651°, -103.212925°)

PROJECT NO.: 212C-MD-03133

DATE: MAY 15, 2024

DESIGNED BY: EMF

Figure No.

4B



Tables

Table 1
JR Oil
MLMU SATELLITE 2
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	ORO	Total						
RRALs						100 mg/kg	10 mg/kg					50 mg/kg	600 mg/kg	
AH-1	5/31/2023	0-1	-	X	<50.0	598	<50.0	598	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	39.6
AH-2	5/31/2023	0-1	-	X	<49.8	1,420	<49.8	1,420	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	61.1
AH-3	5/31/2023	0-1	-	X	<49.9	149	<49.9	149	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	210
AH-4	5/31/2023	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	64.1
AH-5	5/31/2023	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	43.5
	"	1-1.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	57.2
AH-6	5/31/2023	0-1	X	-	<49.8	71.0	<49.8	71.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	55.6
AH-7	5/31/2023	0-1	-	X	<49.9	169	<49.9	169	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	38.1
AH-8	5/31/2023	0-1	-	X	<50.0	665	<50.0	665	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	41.2
AH-9	5/31/2023	0-1	-	X	<50.0	462	<50.0	462	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	44.0
	"	1-1.5	-	X	<49.8	416	119	535	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	48.9

Table 1
JR Oil
MLMU SATELLITE 2
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	ORO	Total						
RRALs			100 mg/kg						10 mg/kg		50 mg/kg		600 mg/kg	
H-1	5/31/2023	0-1	X	-	<49.9	73.4	<49.9	73.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	53.9
H-2	5/31/2023	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	74.9
H-3	5/31/2023	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	36.7
H-4	5/31/2023	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	42.9
H-5	5/31/2023	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	61.1
H-6	5/31/2023	0-1	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	44.5
H-7	5/31/2023	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	49.4
H-8	5/31/2023	0-1	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	38.7
H-9	5/31/2023	0-1	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	37.1
H-10	5/31/2023	0-1	X	-	<49.9	66.4	<49.9	66.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	43.0

NOTES

RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Division) *Guidelines for Remediation of Leaks, Spills, and Releases*.

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

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

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

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

 Excavated

Table 2
JR Oil
Myers Langlie Mattix Unit Satellite 2
Lea County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				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						
RRALs					100 mg/kg				10 mg/kg				50 mg/kg	600 mg/kg
RRALs (Soil Beyond the Top 4.0')					1,000 mg/kg				2,500 mg/kg	10 mg/kg			50 mg/kg	10,000 mg/kg
Trench-1	1/11/2024	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368
	1/11/2024	2.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
	1/11/2024	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
	1/11/2024	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	384
Trench-2	1/11/2024	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
	1/11/2024	2.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
	1/11/2024	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
	1/11/2024	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Trench-3	1/11/2024	0-1'	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	768
	1/11/2024	2.0'	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	992
	1/11/2024	3.0'	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,040
	1/11/2024	4.0'	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	976
	1/17/2024	5.0'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	753
	1/17/2024	6.0'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	653
	1/17/2024	7.0'	X	-	<49.6	<49.6	<49.6	<49.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	607
	1/17/2024	8.0'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	767
	1/17/2024	9.0'	X	-	<50.4	<50.4	<50.4	<50.4	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	495
	1/17/2024	10.0'	X	-	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	403
	1/17/2024	11.0'	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	456
	1/17/2024	12.0'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	436
1/17/2024	13.0'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	406	
1/17/2024	14.0'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	299	
Trench-4	1/11/2024	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	1/11/2024	2.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	1/11/2024	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	1/11/2024	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Trench-5	1/11/2024	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	0.058	<0.050	<0.150	<0.300	320
	1/11/2024	2.0'	X	-	13.5	<10.0	<10.0	13.5	0.073	0.269	0.111	0.221	0.674	560
	1/11/2024	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	448
	1/11/2024	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544

Table 2
JR Oil
Myers Langlie Mattix Unit Satellite 2
Lea County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				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						
RRALs							100 mg/kg	10 mg/kg					50 mg/kg	600 mg/kg
Trench-6	1/11/2024	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
	1/11/2024	2.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	1/11/2024	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	1/11/2024	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Trench-7	1/11/2024	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	1/11/2024	2.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	1/11/2024	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	1/11/2024	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0

NOTES
RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devision) *Guidelines for Remediation of Leaks, Spills, and Releases*.
All screening values and results are presented in milligrams per kilogram (mg/kg).
Bolded cells represent a detected concentration above the respective screening value.
< = analyte was not detected above the respective sample detection limit
ft = feet below ground surface
(-) = not analyzed for respective constituent
TPH = total petroleum hydrocarbons
BTEX = benzene, toluene, ethylbenzene, xylene

Remediated

Table 3
JR Oil LTD
Myers Langlie Mattix Unit Satellite 2
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	ORO	Total						
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
RRALs (Beyond Top 4.0' of Soil)					1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg
BH-1	1/22/2024	1.0	X	-	<10.0	23.2	<10.0	23.2	<0.050	<0.050	<0.050	<0.150	<0.300	128
BH-2	1/22/2024	1.0	X	-	<10.0	21.7	<10.0	21.7	<0.050	<0.050	<0.050	<0.150	<0.300	112
BH-3	1/22/2024	1.0	-	X	<10.0	95.1	33.1	128	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
	2/14/2024	2.0	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	69.7
BH-4	1/22/2024	1.0	-	X	<10.0	170	56.5	227	<0.050	<0.050	<0.050	<0.150	<0.300	176
	2/14/2024	2.0	X	-	<50.5	<50.5	<50.5	<50.5	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	58.4
BH-5	1/22/2024	1.0	X	-	<10.0	46.4	25.9	72.3	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
BH-6	1/22/2024	1.0	-	X	<10.0	279	134	413	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	2/14/2024	2.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	61.0
BH-7	1/22/2024	1.0	X	-	<10.0	43.5	20.3	63.8	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
BH-8	1/22/2024	2.0	-	X	<10.0	139	44.3	183	<0.050	<0.050	<0.050	<0.150	<0.300	240
	2/14/2024	3.0	X	-	<49.7	60.8	<49.7	60.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	214
BH-9	1/22/2024	2.0	-	X	<10.0	72.1	27.6	100	<0.050	<0.050	<0.050	<0.150	<0.300	1,020
	2/14/2024	3.0	X	-	<49.9	67.7	<49.9	67.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	197
BH-10	2/14/2024	4.0	X	-	<50.1	99	<50.1	98.6	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,830
BH-11	2/14/2024	4.0	X	-	<10.0	730	341	1,071	<0.050	<0.050	<0.050	<0.150	<0.300	1,260
BH-12	2/14/2024	4.0	X	-	<10.0	64.1	46.1	110	<0.050	<0.050	<0.050	<0.150	<0.300	448
BH-13	2/14/2024	4.0	X	-	<10.0	36.1	17.4	53.5	<0.050	<0.050	<0.050	<0.150	<0.300	720
BH-14	2/14/2024	4.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	720
BH-15	2/14/2024	4.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	816
BH-16	2/14/2024	4.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	944
BH-17	2/14/2024	4.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	752
BH-18	2/14/2024	2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
BH-19	2/14/2024	2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	496
BH-20	2/14/2024	2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
BH-21	1/22/2024	2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	592

Table 3
JR Oil LTD
Myers Langlie Mattix Unit Satellite 2
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)		
			In-Situ	Removed	GRO	DRO	ORO	Total								
RRALs									100 mg/kg					50 mg/kg	600 mg/kg	
RRALs (Beyond Top 4.0' of Soil)									2,500 mg/kg	10 mg/kg					50 mg/kg	10,000 mg/kg
BH-22	1/22/2024	2.5	-	X	<10.0	98.7	94.1	193	0.085	0.216	0.07	<0.150	0.371	208		
	2/14/2024	4.0	X	-	<50.3	94.2	<50.3	94.2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	875		
BH-23	1/22/2024	1.5	-	X	<10.0	216	126	342	<0.050	<0.050	<0.050	<0.150	<0.300	208		
	2/14/2024	4.0	X	-	<50.3	74.5	<50.3	74.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	530		
BH-24	1/22/2024	1.5	-	X	<10.0	102	68.6	171	<0.050	<0.050	<0.050	<0.150	<0.300	160		
	2/14/2024	4.0	X	-	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	505		
BH-25	1/22/2024	1.5	X	-	<10.0	39.5	16.2	55.7	<0.050	<0.050	<0.050	<0.150	<0.300	144		
BH-26	1/22/2024	1.5	X	-	<10.0	29.3	15.4	44.7	<0.050	<0.050	<0.050	<0.150	<0.300	112		
BH-27	1/22/2024	1.5	-	X	<10.0	303	224	527	<0.050	<0.050	<0.050	<0.150	<0.300	176		
	2/14/2024	4.0	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	81.4		
BH-28	1/22/2024	1.5	-	X	<10.0	157	127	284	<0.050	<0.050	<0.050	<0.150	<0.300	112		
	2/14/2024	4.0	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	102		
BH-29	1/22/2024	1.5	-	X	<10.0	140	128	268	<0.050	<0.050	<0.050	<0.150	<0.300	64.0		
	2/14/2024	4.0	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	100		
SW-1	1/22/2024	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0		
SW-2	1/22/2024	-	X	-	<10.0	38.8	23.8	62.6	<0.050	<0.050	<0.050	<0.150	<0.300	176		
SW-3	1/22/2024	-	X	-	<10.0	53.1	10.6	63.7	<0.050	<0.050	<0.050	<0.150	<0.300	64.0		
SW-4	1/22/2024	-	X	-	<10.0	20.0	<10.0	20.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0		
SW-5	1/22/2024	-	-	X	<10.0	309	78.4	387	<0.050	<0.050	<0.050	<0.150	<0.300	80.0		
	2/12/2024	-	-	X	<50.5	715	<50.5	715	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	72.9		
	3/21/2024	-	X	-	<10.0	26.2	<10.0	26.2	<0.050	<0.050	<0.050	<0.150	<0.300	160		
SW-6	1/22/2024	-	-	X	<10.0	1,440	296	1,736	<0.050	<0.050	<0.050	<0.150	<0.300	144		
	2/12/2024	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	85.0		
SW-7	1/22/2024	-	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,720		
SW-8	1/22/2024	-	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	992		
	2/14/2024	-	X	-	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	76.5		
SW-9	2/12/2024	-	-	X	<50.4	101	<50.4	101	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	78.0		
	3/21/2024	-	-	X	<10.0	28.7	<10.0	28.7	<0.050	<0.050	<0.050	<0.150	<0.300	608		
	3/29/2024	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256		

Table 3
JR Oil LTD
Myers Langlie Mattix Unit Satellite 2
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)		
			In-Situ	Removed	GRO	DRO	ORO	Total								
RRALs									100 mg/kg	10 mg/kg					50 mg/kg	600 mg/kg
RRALs (Beyond Top 4.0' of Soil)									1,000 mg/kg				2,500 mg/kg	10 mg/kg	50 mg/kg	10,000 mg/kg
SW-10	2/12/2024	-	-	X	<49.7	110	<49.7	110	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	902		
	3/21/2024	-	X	-	<10.0	43.4	13.5	56.9	<0.050	<0.050	<0.050	<0.150	<0.300	144		
SW-11	2/12/2024	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	61.8		
SW-12	1/22/2024	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400		
SW-13	1/22/2024	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320		
SW-14	1/22/2024	-	-	X	<10.0	224	190	414	<0.050	0.061	0.054	<0.150	<0.300	336		
	2/12/2024	-	X	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	57.7		
SW-15	1/22/2024	-	X	-	<10.0	<10.0	13.0	13.0	<0.050	<0.050	<0.050	<0.150	<0.300	176		
SW-16	1/22/2024	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0		
SW-17	1/22/2024	-	X	-	<10.0	25.0	43.4	68.4	<0.050	<0.050	<0.050	<0.150	<0.300	48.0		
SW-18	1/22/2024	-	-	X	<10.0	59.9	89.9	150	<0.050	<0.050	<0.050	<0.150	<0.300	272		
	2/12/2024	-	X	-	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	67.6		
SW-19	2/12/2024	-	X	-	<50.3	60.4	<50.3	60.4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	145		

NOTES

RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Division) *Guidelines for Remediation of Leaks, Spills, and Releases*.

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

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

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

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

 Remediated
 Removed



Photographic Documentation

JR Oil
Myers Langlie Mattix Unit Sat #2
Lea County, New Mexico



View of Remediation Activities – View Northwest



View of Remediation Activities – View Northwest

JR Oil
Myers Langlie Mattix Unit Sat #2
Lea County, New Mexico



View of Remediation Activities – View Southeast



View of Remediation Activities – View North

JR Oil
Myers Langlie Mattix Unit Sat #2
Lea County, New Mexico



View of Remediation Activities – View West



View of Remediation Activities – View East



Appendix A

C-141 Document

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2128751635
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	JR OIL LTD	OGRID
Contact Name	JOE TIPPY	Contact Telephone 575-390-1380
Contact email	joetippy@valornet.com	Incident # (assigned by OCD) nAPP2128751635
Contact mailing address	PO BOX 2975 HOBBS, NM 88241	

Location of Release Source

Latitude 32.2634272 Longitude -103. 2135886
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	MYERS LANGLIE MATTIX UNIT SAT #2	Site Type	SATELLITE
Date Release Discovered	9/30/21	API# (if applicable)	

Unit Letter	Section	Township	Range	County
P	25	23S	26E	LEA

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: LEA COUNTY PARTNERS)

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 10bbls	Volume Recovered (bbls) 9bbls
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 240bbls	Volume Recovered (bbls) 239bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

TRUNK LINE PLUGGED OFF CAUSING AN OVERPRESSURE EVENT

Form C-141

Page 2


State of New Mexico
Oil Conservation Division

Incident ID	nAPP2128751635
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? 250 EST. BBLS OF OIL/PRODUCED WATER, EST 12,000 CHLORIDES
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? PHONE CALL TO GARY ROBINSON (OCD), ON 10/2/21 AND EMAIL 10/2/21 BY JOSH LATIMER JR OIL PRODUCTION FOREMAN	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: JOSH LATIMER Signature:  email: JLATIMER@COLTENERGYNM.COM	Title: PRODUCTION FOREMAN Date: 11/12/21 Telephone: 575-414-9188
OCD Only Received by: Ramona Marcus Date: 11/16/2021	

Location of spill:

Myers Langlie Mattix Unit Sat #2

Date of Spill:

9/30/2021

Site Soil Type:

Fine Sand

Average Daily Production:

BBL Oil

BBL Water

Total Area Calculations						
Total Surface Area	width		length		wet soil depth	oil (%)
Rectangle Area #1	25 ft	X	780 ft	X	0 in	4%
Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

Porosity 0.16 gal per gal

Saturated Soil Volume Calculations:

		H2O	OIL
Area #1	19500 sq. ft.	78 cu. ft.	3 cu. ft.
Area #2	0 sq. ft.	cu. ft.	cu. ft.
Area #3	0 sq. ft.	cu. ft.	cu. ft.
Area #4	0 sq. ft.	cu. ft.	cu. ft.
Area #5	0 sq. ft.	cu. ft.	cu. ft.
Area #6	0 sq. ft.	cu. ft.	cu. ft.
Area #7	0 sq. ft.	cu. ft.	cu. ft.
Area #8	0 sq. ft.	cu. ft.	cu. ft.
Total Solid/Liquid Volume:	19,500 sq. ft.	78 cu. ft.	3 cu. ft.

Estimated Volumes Spilled

	H2O	OIL
Liquid in Soil:	2.2 BBL	0.1 BBL
Liquid Recovered :	239.0 BBL	9.0 BBL
Spill Liquid	241.2 BBL	9.1 BBL
Total Spill Liquid:	250.3	

Recovered Volumes

Estimated oil recovered: 9.0 BBL
 Estimated water recovered: 239.0 BBL

Soil Type	Porosity
Clay	0.15
Peat	0.40
Glacial Sediments	0.13
Sandy Clay	0.12
Silt	0.16
Loess	0.25
Fine Sand	0.16
Medium Sand	0.25
Coarse Sand	0.26
Gravelly Sand	0.26
Fine Gravel	0.26
Medium Gravel	0.25
Coarse Gravel	0.18
Sandstone	0.25
Siltstone	0.18
Shale	0.05
Limestone	0.13
Basalt	0.19
Volcanic Tuff	0.20
Standing Liquids	

District I

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District II

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District III

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District IV

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 303020

QUESTIONS

Operator: J R OIL, LTD. CO. P.O. Box 53657 Lubbock, TX 79453	OGRID: 256073
	Action Number: 303020
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2128751635
Incident Name	NAPP2128751635 MYERS LANGLIE MATRIX UNIT #2 @ 0
Incident Type	Other
Incident Status	Initial C-141 Received

Location of Release Source

Site Name	MYERS LANGLIE MATRIX UNIT #2
Date Release Discovered	09/30/2021
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	9,219
What is the estimated number of samples that will be gathered	72
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/16/2024
Time sampling will commence	08:45 AM
Please provide any information necessary for observers to contact samplers	TetraTech Brittany Long - 432-741-5813
Please provide any information necessary for navigation to sampling site	• Directions – From intersection of HWY 18 and Deep Wells Rd, head west on Deep Wells Rd, follow for 1.83 miles. Turn right (North) onto lease road, follow for 0.05 miles, stay to the right at the "y", follow for 0.14 miles.

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Santa Fe, NM 87505

CONDITIONS

Action 303020

CONDITIONS

Operator: J R OIL, LTD. CO. P.O. Box 53657 Lubbock, TX 79453	OGRID: 256073
	Action Number: 303020
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jtippy	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/12/2024

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QUESTIONS

Action 311668

QUESTIONS

Operator: J R OIL, LTD. CO. P.O. Box 53657 Lubbock, TX 79453	OGRID: 256073
	Action Number: 311668
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2128751635
Incident Name	NAPP2128751635 MYERS LANGLIE MATRIX UNIT #2 @ 0
Incident Type	Other
Incident Status	Initial C-141 Received

Location of Release Source

Site Name	MYERS LANGLIE MATRIX UNIT #2
Date Release Discovered	09/30/2021
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	2,200
What is the estimated number of samples that will be gathered	22
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/08/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Tetra Tech - 432-741-5813
Please provide any information necessary for navigation to sampling site	From intersection of HWY 18 and Deep Wells Rd, head west on Deep Wells Rd, follow for 1.83 miles. Turn right (North) onto lease road, follow for 0.05 miles, stay to the right at the "y", follow for 0.14 miles.

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CONDITIONS

Action 311668

CONDITIONS

Operator: J R OIL, LTD. CO. P.O. Box 53657 Lubbock, TX 79453	OGRID: 256073
	Action Number: 311668
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
tetrattech	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/6/2024

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Oil Conservation Division
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QUESTIONS

Action 324474

QUESTIONS

Operator: J R OIL, LTD. CO. P.O. Box 53657 Lubbock, TX 79453	OGRID: 256073
	Action Number: 324474
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2128751635
Incident Name	NAPP2128751635 MYERS LANGLIE MATRIX UNIT #2 @ 0
Incident Type	Other
Incident Status	Initial C-141 Received

Location of Release Source

Site Name	MYERS LANGLIE MATRIX UNIT #2
Date Release Discovered	09/30/2021
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	1,600
What is the estimated number of samples that will be gathered	8
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/21/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Tetra Tech/432-741-5813
Please provide any information necessary for navigation to sampling site	From intersection of HWY 18 and Deep Wells Rd, head west on Deep Wells Rd, follow for 1.83 miles. Turn right (North) onto lease road, follow for 0.05 miles, stay to the right at the "y", follow for 0.14 miles.

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CONDITIONS

Action 324474

CONDITIONS

Operator: J R OIL, LTD. CO. P.O. Box 53657 Lubbock, TX 79453	OGRID: 256073
	Action Number: 324474
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
tetrattech	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/19/2024

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QUESTIONS

Action 327421

QUESTIONS

Operator: J R OIL, LTD. CO. P.O. Box 53657 Lubbock, TX 79453	OGRID: 256073
	Action Number: 327421
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2128751635
Incident Name	NAPP2128751635 MYERS LANGLIE MATRIX UNIT #2 @ 0
Incident Type	Other
Incident Status	Initial C-141 Received

Location of Release Source	
Site Name	MYERS LANGLIE MATRIX UNIT #2
Date Release Discovered	09/30/2021
Surface Owner	Private

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	200
What is the estimated number of samples that will be gathered	1
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/29/2024
Time sampling will commence	02:20 PM
Please provide any information necessary for observers to contact samplers	Tetra Tech / 432-741-5813
Please provide any information necessary for navigation to sampling site	From intersection of HWY 18 and Deep Wells Rd, head west on Deep Wells Rd, follow for 1.83 miles. Turn right (North) onto lease road, follow for 0.05 miles, stay to the right at the "y", follow for 0.14 miles.

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CONDITIONS

Action 327421

CONDITIONS

Operator: J R OIL, LTD. CO. P.O. Box 53657 Lubbock, TX 79453	OGRID: 256073
	Action Number: 327421
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
tetrattech	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/27/2024




Appendix B

Site Characterization Documents



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 01027 POD1	4	2	4	36	23S	36E	668436	3570425 

Driller License:	1626	Driller Company:	TAYLOR DRILLING
Driller Name:	TAYLOR, ROY ALLEN		
Drill Start Date:	09/06/2010	Drill Finish Date:	09/07/2010
Log File Date:	09/29/2010	PCW Rev Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	5.99	Depth Well:	190 feet
		Plug Date:	
		Source:	Shallow
		Estimated Yield:	100 GPM
		Depth Water:	87 feet

Water Bearing Stratifications:	Top	Bottom	Description
	87	185	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	110	190

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Groundwater levels for the Nation

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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321540103125701

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321540103125701 23S.36E.36.314122

Lea County, New Mexico

Latitude 32°15'32", Longitude 103°13'28" NAD27

Land-surface elevation 3,330.20 feet above NGVD29

The depth of the well is 263 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1965-10-20			D 62610		3199.98	NGVD29	P	Z		
1965-10-20			D 62611		3201.33	NAVD88	P	Z		
1965-10-20			D 72019	130.22			P	Z		
1970-12-17			D 62610		3200.18	NGVD29	1	Z		
1970-12-17			D 62611		3201.53	NAVD88	1	Z		
1970-12-17			D 72019	130.02			1	Z		
1976-01-20			D 62610		3200.40	NGVD29	1	Z		
1976-01-20			D 62611		3201.75	NAVD88	1	Z		
1976-01-20			D 72019	129.80			1	Z		
1981-03-25			D 62610		3197.16	NGVD29	1	Z		
1981-03-25			D 62611		3198.51	NAVD88	1	Z		
1981-03-25			D 72019	133.04			1	Z		
1986-03-20			D 62610		3201.87	NGVD29	1	Z		
1986-03-20			D 62611		3203.22	NAVD88	1	Z		
1986-03-20			D 72019	128.33			1	Z		
1991-05-08			D 62610		3207.56	NGVD29	1	Z		

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 measur
1991-05-08		D	62611		3208.91	NAVD88	1	Z		
1991-05-08		D	72019	122.64			1	Z		
1996-02-22		D	62610		3209.28	NGVD29	1	S		
1996-02-22		D	62611		3210.63	NAVD88	1	S		
1996-02-22		D	72019	120.92			1	S		
2001-02-21		D	62610		3210.29	NGVD29	1	S		
2001-02-21		D	62611		3211.64	NAVD88	1	S		
2001-02-21		D	72019	119.91			1	S		
2006-02-23	18:00 UTC	m	62610		3209.01	NGVD29	1	S	USGS	
2006-02-23	18:00 UTC	m	62611		3210.36	NAVD88	1	S	USGS	
2006-02-23	18:00 UTC	m	72019	121.19			1	S	USGS	
2010-12-16	19:50 UTC	m	62610		3210.63	NGVD29	1	S	USGS	
2010-12-16	19:50 UTC	m	62611		3211.98	NAVD88	1	S	USGS	
2010-12-16	19:50 UTC	m	72019	119.57			1	S	USGS	
2016-01-06	16:10 UTC	m	62610		3210.24	NGVD29	1	V	USGS	
2016-01-06	16:10 UTC	m	62611		3211.59	NAVD88	1	V	USGS	
2016-01-06	16:10 UTC	m	72019	119.96			1	V	USGS	
2021-01-22	20:36 UTC	m	62610		3211.08	NGVD29	1	S	USGS	
2021-01-22	20:36 UTC	m	62611		3212.43	NAVD88	1	S	USGS	
2021-01-22	20:36 UTC	m	72019	119.12			1	S	USGS	
2022-01-25	19:25 UTC	m	62610		3211.09	NGVD29	1	S	USGS	
2022-01-25	19:25 UTC	m	62611		3212.44	NAVD88	1	S	USGS	
2022-01-25	19:25 UTC	m	72019	119.11			1	S	USGS	
2023-02-09	18:48 UTC	m	62610		3210.99	NGVD29	1	S	USGS	
2023-02-09	18:48 UTC	m	62611		3212.34	NAVD88	1	S	USGS	
2023-02-09	18:48 UTC	m	72019	119.21			1	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
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
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	V	Calibrated electric-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

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

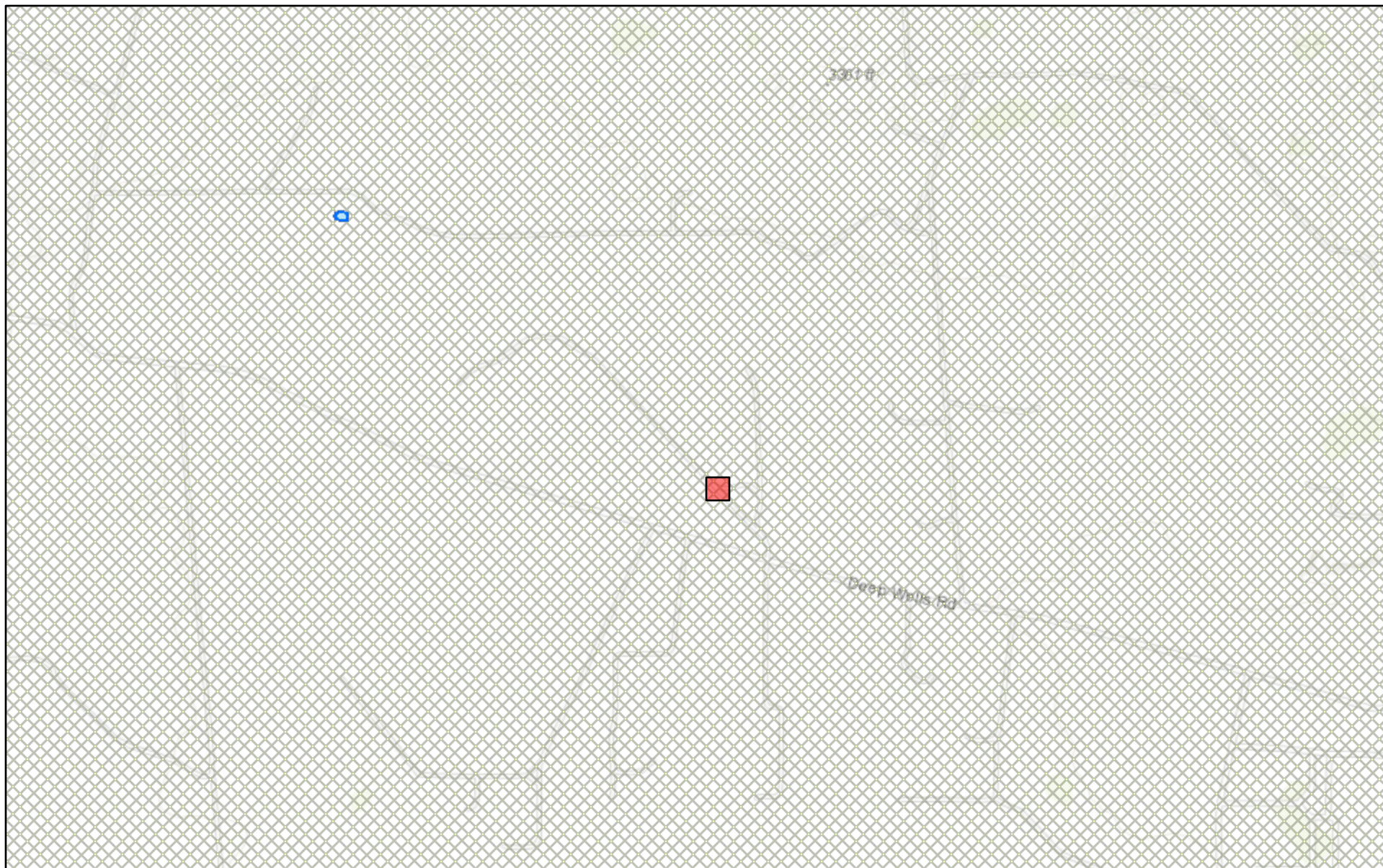


Page Contact Information: [USGS Water Data Support Team](#)

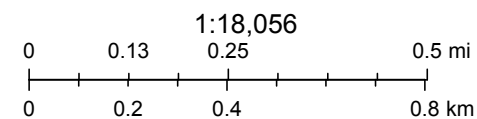
Page Last Modified: 2023-06-15 17:58:22 EDT

0.29 0.24 nadww01

New Mexico NFHL Data



June 15, 2023



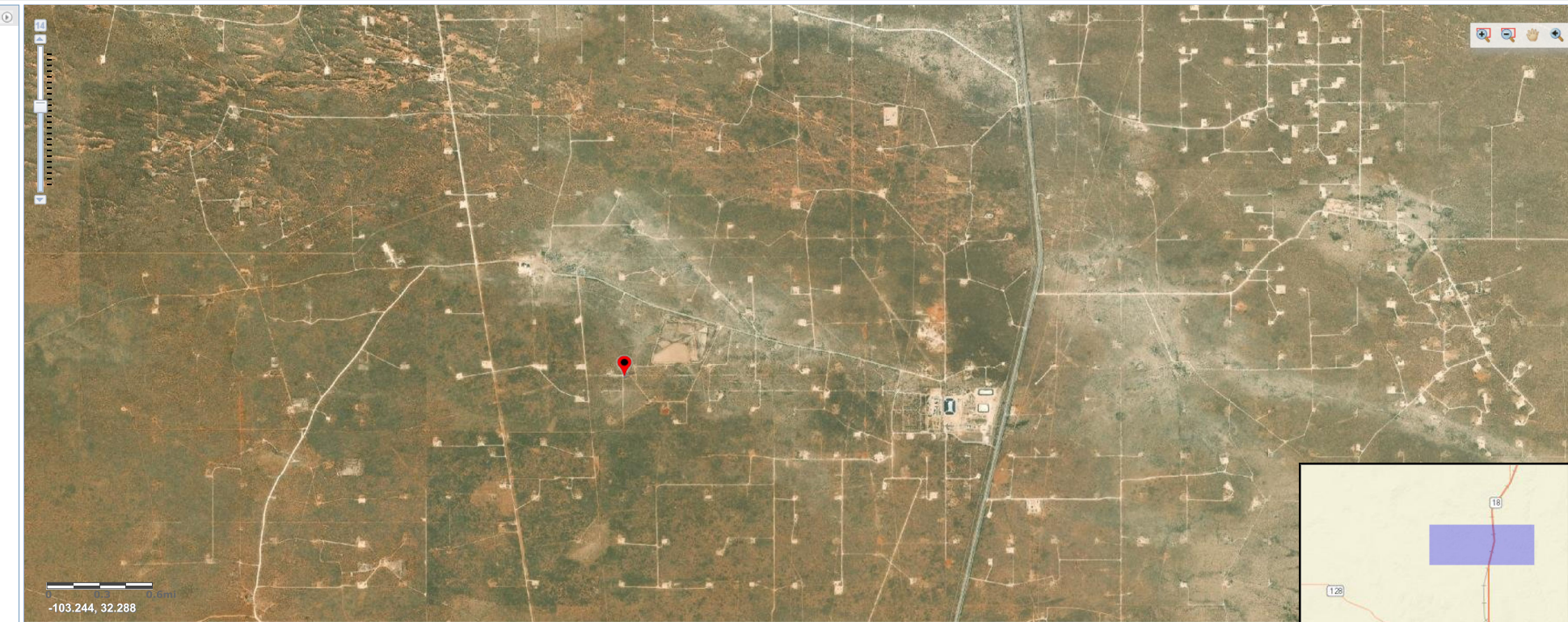
FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

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National Water Information System: Mapper




Site Information

Low Karst
R Oil
LMU Satellite #2


Released to Imaging: 5/30/2025 1:25:27 PM

Legend

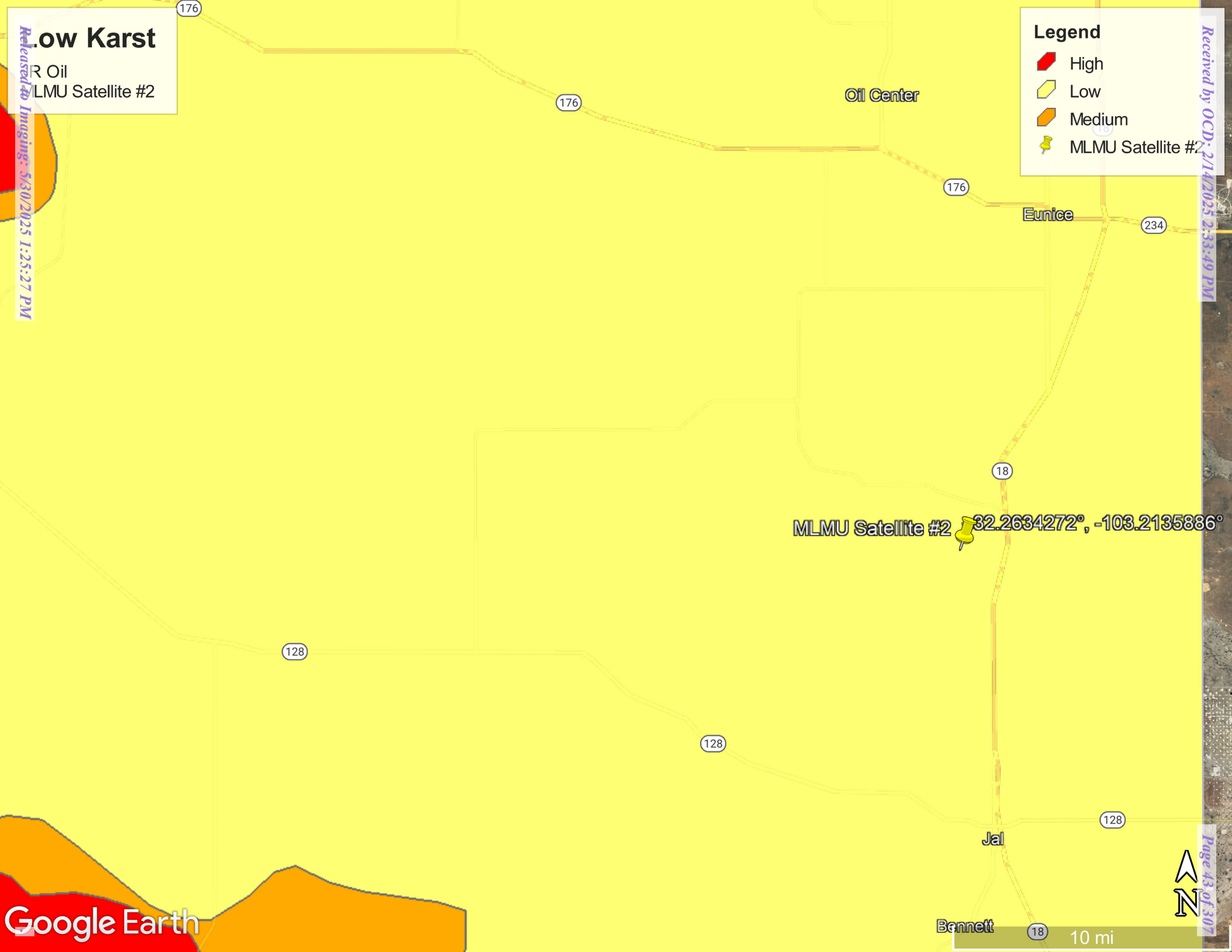
 High

 Low

 Medium

 MLMU Satellite #2

Received by OCD: 2/14/2025 2:33:49 PM





Appendix C

Laboratory Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 6/7/2023 9:34:27 AM

JOB DESCRIPTION

MLMU SATELLITE 2
SDG NUMBER 212C-MD-03133 TASK 100

JOB NUMBER

890-4770-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Generated
6/7/2023 9:34:27 AM

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

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Laboratory Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

Job ID: 890-4770-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4770-1

Receipt

The samples were received on 6/1/2023 4:45 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 2.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-1') (890-4770-1), H-2 (0-1') (890-4770-2), H-3 (0-1') (890-4770-3), H-4 (0-1') (890-4770-4), H-5 (0-1') (890-4770-5), H-6 (0-1') (890-4770-6), H-7 (0-1') (890-4770-7), H-8 (0-1') (890-4770-8), H-9 (0-1') (890-4770-9), H-10 (0-1') (890-4770-10), AH-1 (0-1') (890-4770-11), AH-2 (0-1') (890-4770-12), AH-3 (0-1') (890-4770-13), AH-4 (0-1') (890-4770-14), AH-5 (0-1') (890-4770-15), AH-5 (1-1.5') (890-4770-16), AH-6 (0-1') (890-4770-17), AH-7 (0-1') (890-4770-18), AH-8 (0-1') (890-4770-19), AH-9 (0-1') (890-4770-20) and AH-9 (1-1.5') (890-4770-21).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-54780 and analytical batch 880-54839 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-54777 and analytical batch 880-54872 recovered outside control limits for the following analytes: Benzene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-54872 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: H-2 (0-1') (890-4770-2), H-3 (0-1') (890-4770-3), H-4 (0-1') (890-4770-4), H-5 (0-1') (890-4770-5), H-6 (0-1') (890-4770-6), H-7 (0-1') (890-4770-7), H-9 (0-1') (890-4770-9), AH-1 (0-1') (890-4770-11), AH-2 (0-1') (890-4770-12), AH-3 (0-1') (890-4770-13), AH-4 (0-1') (890-4770-14), AH-5 (0-1') (890-4770-15), AH-5 (1-1.5') (890-4770-16), AH-6 (0-1') (890-4770-17), AH-7 (0-1') (890-4770-18), AH-8 (0-1') (890-4770-19) and AH-9 (0-1') (890-4770-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The method blank for preparation batch 880-54721 and analytical batch 880-54716 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-54739/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-54713/62). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-54668 and 880-54668 and analytical batch 880-54798 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

Job ID: 890-4770-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-54669 and 880-54669 and analytical batch 880-54800 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: 890-4770-1

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U **	0.00201		mg/Kg		06/05/23 14:53	06/06/23 15:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/05/23 14:53	06/06/23 15:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/05/23 14:53	06/06/23 15:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/05/23 14:53	06/06/23 15:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/05/23 14:53	06/06/23 15:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/05/23 14:53	06/06/23 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	06/05/23 14:53	06/06/23 15:11	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/05/23 14:53	06/06/23 15:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	73.4		49.9		mg/Kg			06/06/23 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 04:15	1
Diesel Range Organics (Over C10-C28)	73.4		49.9		mg/Kg		06/05/23 10:57	06/06/23 04:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 04:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	06/05/23 10:57	06/06/23 04:15	1
o-Terphenyl	88		70 - 130	06/05/23 10:57	06/06/23 04:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.9	F1	5.03		mg/Kg			06/05/23 19:38	1

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

Lab Sample ID: 890-4770-2

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202		mg/Kg		06/05/23 14:53	06/06/23 15:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/05/23 14:53	06/06/23 15:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/05/23 14:53	06/06/23 15:38	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/05/23 14:53	06/06/23 15:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/05/23 14:53	06/06/23 15:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/05/23 14:53	06/06/23 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	06/05/23 14:53	06/06/23 15:38	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: 890-4770-2

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	06/05/23 14:53	06/06/23 15:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/23 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/05/23 22:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/05/23 22:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/05/23 22:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				06/05/23 10:57	06/05/23 22:57	1
o-Terphenyl	92		70 - 130				06/05/23 10:57	06/05/23 22:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.9		4.99		mg/Kg			06/05/23 19:54	1

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

Lab Sample ID: 890-4770-3

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *	0.00199		mg/Kg		06/05/23 14:53	06/06/23 16:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/05/23 14:53	06/06/23 16:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/05/23 14:53	06/06/23 16:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/05/23 14:53	06/06/23 16:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/05/23 14:53	06/06/23 16:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/05/23 14:53	06/06/23 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	06/05/23 14:53	06/06/23 16:04	1
1,4-Difluorobenzene (Surr)	96		70 - 130	06/05/23 14:53	06/06/23 16:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/23 11:29	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: 890-4770-3

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/05/23 10:57	06/06/23 06:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/05/23 10:57	06/06/23 06:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/05/23 10:57	06/06/23 06:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				06/05/23 10:57	06/06/23 06:43	1
o-Terphenyl	82		70 - 130				06/05/23 10:57	06/06/23 06:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.7		5.01		mg/Kg			06/05/23 20:00	1

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

Lab Sample ID: 890-4770-4

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200		mg/Kg		06/05/23 14:53	06/06/23 16:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 16:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 16:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/05/23 14:53	06/06/23 16:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 16:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/05/23 14:53	06/06/23 16:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				06/05/23 14:53	06/06/23 16:30	1
1,4-Difluorobenzene (Surr)	92		70 - 130				06/05/23 14:53	06/06/23 16:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/23 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/05/23 10:57	06/06/23 00:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/05/23 10:57	06/06/23 00:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/05/23 10:57	06/06/23 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				06/05/23 10:57	06/06/23 00:01	1
o-Terphenyl	85		70 - 130				06/05/23 10:57	06/06/23 00:01	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: 890-4770-4

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.9		4.96		mg/Kg			06/05/23 20:05	1

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

Lab Sample ID: 890-4770-5

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U **	0.00201		mg/Kg		06/05/23 14:53	06/06/23 16:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/05/23 14:53	06/06/23 16:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/05/23 14:53	06/06/23 16:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/05/23 14:53	06/06/23 16:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/05/23 14:53	06/06/23 16:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/05/23 14:53	06/06/23 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130				06/05/23 14:53	06/06/23 16:56	1
1,4-Difluorobenzene (Surr)	95		70 - 130				06/05/23 14:53	06/06/23 16:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/23 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 00:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 00:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 00:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				06/05/23 10:57	06/06/23 00:23	1
o-Terphenyl	87		70 - 130				06/05/23 10:57	06/06/23 00:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.1		4.98		mg/Kg			06/05/23 20:11	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: 890-4770-6

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		06/05/23 14:53	06/06/23 17:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 17:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 17:22	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/05/23 14:53	06/06/23 17:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 17:22	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/05/23 14:53	06/06/23 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	06/05/23 14:53	06/06/23 17:22	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/05/23 14:53	06/06/23 17:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/06/23 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/05/23 10:57	06/06/23 00:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/05/23 10:57	06/06/23 00:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/05/23 10:57	06/06/23 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	06/05/23 10:57	06/06/23 00:44	1
o-Terphenyl	76		70 - 130	06/05/23 10:57	06/06/23 00:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.5		5.00		mg/Kg			06/05/23 20:27	1

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

Lab Sample ID: 890-4770-7

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		06/05/23 14:53	06/06/23 17:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 17:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 17:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/05/23 14:53	06/06/23 17:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 17:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/05/23 14:53	06/06/23 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130	06/05/23 14:53	06/06/23 17:48	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: 890-4770-7

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130	06/05/23 14:53	06/06/23 17:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/23 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 01:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 01:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				06/05/23 10:57	06/06/23 01:05	1
o-Terphenyl	79		70 - 130				06/05/23 10:57	06/06/23 01:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.4		4.98		mg/Kg			06/05/23 20:33	1

Client Sample ID: H-8 (0-1')

Lab Sample ID: 890-4770-8

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200		mg/Kg		06/05/23 14:53	06/06/23 18:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 18:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 18:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/05/23 14:53	06/06/23 18:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 18:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/05/23 14:53	06/06/23 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	06/05/23 14:53	06/06/23 18:14	1
1,4-Difluorobenzene (Surr)	86		70 - 130	06/05/23 14:53	06/06/23 18:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/06/23 11:29	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

Client Sample ID: H-8 (0-1')

Lab Sample ID: 890-4770-8

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/05/23 10:57	06/06/23 01:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/05/23 10:57	06/06/23 01:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/05/23 10:57	06/06/23 01:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				06/05/23 10:57	06/06/23 01:26	1
o-Terphenyl	83		70 - 130				06/05/23 10:57	06/06/23 01:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.7		5.05		mg/Kg			06/05/23 20:38	1

Client Sample ID: H-9 (0-1')

Lab Sample ID: 890-4770-9

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200		mg/Kg		06/05/23 14:53	06/06/23 18:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 18:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 18:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/05/23 14:53	06/06/23 18:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 18:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/05/23 14:53	06/06/23 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				06/05/23 14:53	06/06/23 18:40	1
1,4-Difluorobenzene (Surr)	95		70 - 130				06/05/23 14:53	06/06/23 18:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/06/23 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/05/23 10:57	06/06/23 01:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/05/23 10:57	06/06/23 01:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/05/23 10:57	06/06/23 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				06/05/23 10:57	06/06/23 01:47	1
o-Terphenyl	87		70 - 130				06/05/23 10:57	06/06/23 01:47	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

Client Sample ID: H-9 (0-1')

Lab Sample ID: 890-4770-9

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.1		4.97		mg/Kg			06/05/23 20:44	1

Client Sample ID: H-10 (0-1')

Lab Sample ID: 890-4770-10

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U **	0.00201		mg/Kg		06/05/23 14:53	06/06/23 19:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/05/23 14:53	06/06/23 19:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/05/23 14:53	06/06/23 19:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/05/23 14:53	06/06/23 19:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/05/23 14:53	06/06/23 19:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/05/23 14:53	06/06/23 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				06/05/23 14:53	06/06/23 19:06	1
1,4-Difluorobenzene (Surr)	86		70 - 130				06/05/23 14:53	06/06/23 19:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	66.4		49.9		mg/Kg			06/06/23 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 04:36	1
Diesel Range Organics (Over C10-C28)	66.4		49.9		mg/Kg		06/05/23 10:57	06/06/23 04:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 04:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				06/05/23 10:57	06/06/23 04:36	1
o-Terphenyl	87		70 - 130				06/05/23 10:57	06/06/23 04:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.0		4.99		mg/Kg			06/05/23 20:49	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: 890-4770-11

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202		mg/Kg		06/05/23 14:53	06/06/23 20:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/05/23 14:53	06/06/23 20:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/05/23 14:53	06/06/23 20:49	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/05/23 14:53	06/06/23 20:49	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/05/23 14:53	06/06/23 20:49	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/05/23 14:53	06/06/23 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	06/05/23 14:53	06/06/23 20:49	1
1,4-Difluorobenzene (Surr)	81		70 - 130	06/05/23 14:53	06/06/23 20:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	598		50.0		mg/Kg			06/06/23 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/05/23 10:57	06/06/23 04:57	1
Diesel Range Organics (Over C10-C28)	598		50.0		mg/Kg		06/05/23 10:57	06/06/23 04:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/05/23 10:57	06/06/23 04:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	06/05/23 10:57	06/06/23 04:57	1
o-Terphenyl	76		70 - 130	06/05/23 10:57	06/06/23 04:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.6		5.01		mg/Kg			06/05/23 20:55	1

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

Lab Sample ID: 890-4770-12

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199		mg/Kg		06/05/23 14:53	06/06/23 21:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/05/23 14:53	06/06/23 21:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/05/23 14:53	06/06/23 21:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/05/23 14:53	06/06/23 21:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/05/23 14:53	06/06/23 21:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/05/23 14:53	06/06/23 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	06/05/23 14:53	06/06/23 21:15	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: 890-4770-12

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	06/05/23 14:53	06/06/23 21:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1420		49.8		mg/Kg			06/06/23 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/05/23 10:57	06/06/23 03:33	1
Diesel Range Organics (Over C10-C28)	1420		49.8		mg/Kg		06/05/23 10:57	06/06/23 03:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/05/23 10:57	06/06/23 03:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				06/05/23 10:57	06/06/23 03:33	1
o-Terphenyl	77		70 - 130				06/05/23 10:57	06/06/23 03:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.1		4.97		mg/Kg			06/05/23 21:11	1

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

Lab Sample ID: 890-4770-13

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *	0.00198		mg/Kg		06/05/23 14:53	06/06/23 21:41	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/05/23 14:53	06/06/23 21:41	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/05/23 14:53	06/06/23 21:41	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/05/23 14:53	06/06/23 21:41	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/05/23 14:53	06/06/23 21:41	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/05/23 14:53	06/06/23 21:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130	06/05/23 14:53	06/06/23 21:41	1
1,4-Difluorobenzene (Surr)	93		70 - 130	06/05/23 14:53	06/06/23 21:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	149		49.9		mg/Kg			06/06/23 11:29	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: 890-4770-13

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 03:54	1
Diesel Range Organics (Over C10-C28)	149		49.9		mg/Kg		06/05/23 10:57	06/06/23 03:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 03:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				06/05/23 10:57	06/06/23 03:54	1
o-Terphenyl	74		70 - 130				06/05/23 10:57	06/06/23 03:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		5.04		mg/Kg			06/05/23 21:16	1

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

Lab Sample ID: 890-4770-14

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *	0.00198		mg/Kg		06/05/23 14:53	06/06/23 22:07	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/05/23 14:53	06/06/23 22:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/05/23 14:53	06/06/23 22:07	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/05/23 14:53	06/06/23 22:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/05/23 14:53	06/06/23 22:07	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/05/23 14:53	06/06/23 22:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130				06/05/23 14:53	06/06/23 22:07	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/05/23 14:53	06/06/23 22:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/23 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 02:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 02:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 02:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				06/05/23 10:57	06/06/23 02:08	1
o-Terphenyl	80		70 - 130				06/05/23 10:57	06/06/23 02:08	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: 890-4770-14

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.1		4.98		mg/Kg			06/05/23 21:33	1

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

Lab Sample ID: 890-4770-15

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199		mg/Kg		06/05/23 14:53	06/06/23 22:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/05/23 14:53	06/06/23 22:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/05/23 14:53	06/06/23 22:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/05/23 14:53	06/06/23 22:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/05/23 14:53	06/06/23 22:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/05/23 14:53	06/06/23 22:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130				06/05/23 14:53	06/06/23 22:34	1
1,4-Difluorobenzene (Surr)	89		70 - 130				06/05/23 14:53	06/06/23 22:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/06/23 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 02:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 02:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 02:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				06/05/23 10:57	06/06/23 02:51	1
o-Terphenyl	77		70 - 130				06/05/23 10:57	06/06/23 02:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.5		5.05		mg/Kg			06/05/23 21:38	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: 890-4770-16

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 1 - 1.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		06/05/23 14:53	06/06/23 23:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 23:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 23:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/05/23 14:53	06/06/23 23:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 23:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/05/23 14:53	06/06/23 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130	06/05/23 14:53	06/06/23 23:00	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/05/23 14:53	06/06/23 23:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/06/23 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/05/23 10:57	06/06/23 02:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/05/23 10:57	06/06/23 02:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/05/23 10:57	06/06/23 02:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	06/05/23 10:57	06/06/23 02:30	1
o-Terphenyl	89		70 - 130	06/05/23 10:57	06/06/23 02:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.2		5.05		mg/Kg			06/05/23 21:44	1

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

Lab Sample ID: 890-4770-17

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U **	0.00198		mg/Kg		06/05/23 14:53	06/06/23 23:26	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/05/23 14:53	06/06/23 23:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/05/23 14:53	06/06/23 23:26	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/05/23 14:53	06/06/23 23:26	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/05/23 14:53	06/06/23 23:26	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/05/23 14:53	06/06/23 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130	06/05/23 14:53	06/06/23 23:26	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: 890-4770-17

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130	06/05/23 14:53	06/06/23 23:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	71.0		49.8		mg/Kg			06/06/23 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/05/23 10:57	06/06/23 06:22	1
Diesel Range Organics (Over C10-C28)	71.0		49.8		mg/Kg		06/05/23 10:57	06/06/23 06:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/05/23 10:57	06/06/23 06:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				06/05/23 10:57	06/06/23 06:22	1
o-Terphenyl	77		70 - 130				06/05/23 10:57	06/06/23 06:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.6		5.05		mg/Kg			06/05/23 21:49	1

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

Lab Sample ID: 890-4770-18

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *	0.00199		mg/Kg		06/05/23 14:53	06/06/23 23:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/05/23 14:53	06/06/23 23:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/05/23 14:53	06/06/23 23:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/05/23 14:53	06/06/23 23:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/05/23 14:53	06/06/23 23:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/05/23 14:53	06/06/23 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	06/05/23 14:53	06/06/23 23:52	1
1,4-Difluorobenzene (Surr)	84		70 - 130	06/05/23 14:53	06/06/23 23:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	169		49.9		mg/Kg			06/06/23 11:29	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: 890-4770-18

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 06:00	1
Diesel Range Organics (Over C10-C28)	169		49.9		mg/Kg		06/05/23 10:57	06/06/23 06:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/05/23 10:57	06/06/23 06:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				06/05/23 10:57	06/06/23 06:00	1
o-Terphenyl	79		70 - 130				06/05/23 10:57	06/06/23 06:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.1		4.98		mg/Kg			06/05/23 21:55	1

Client Sample ID: AH-8 (0-1')

Lab Sample ID: 890-4770-19

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *	0.00201		mg/Kg		06/05/23 14:53	06/07/23 00:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/05/23 14:53	06/07/23 00:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/05/23 14:53	06/07/23 00:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/05/23 14:53	06/07/23 00:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/05/23 14:53	06/07/23 00:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/05/23 14:53	06/07/23 00:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				06/05/23 14:53	06/07/23 00:19	1
1,4-Difluorobenzene (Surr)	86		70 - 130				06/05/23 14:53	06/07/23 00:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	665		50.0		mg/Kg			06/06/23 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/05/23 10:57	06/06/23 05:18	1
Diesel Range Organics (Over C10-C28)	665		50.0		mg/Kg		06/05/23 10:57	06/06/23 05:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/05/23 10:57	06/06/23 05:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				06/05/23 10:57	06/06/23 05:18	1
o-Terphenyl	81		70 - 130				06/05/23 10:57	06/06/23 05:18	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

Client Sample ID: AH-8 (0-1')

Lab Sample ID: 890-4770-19

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.2		5.01		mg/Kg			06/05/23 22:00	1

Client Sample ID: AH-9 (0-1')

Lab Sample ID: 890-4770-20

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 0 - 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202		mg/Kg		06/05/23 14:53	06/07/23 00:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/05/23 14:53	06/07/23 00:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/05/23 14:53	06/07/23 00:45	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/05/23 14:53	06/07/23 00:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/05/23 14:53	06/07/23 00:45	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/05/23 14:53	06/07/23 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130				06/05/23 14:53	06/07/23 00:45	1
1,4-Difluorobenzene (Surr)	86		70 - 130				06/05/23 14:53	06/07/23 00:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/07/23 10:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	462		50.0		mg/Kg			06/06/23 11:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/05/23 10:57	06/06/23 05:40	1
Diesel Range Organics (Over C10-C28)	462		50.0		mg/Kg		06/05/23 10:57	06/06/23 05:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/05/23 10:57	06/06/23 05:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				06/05/23 10:57	06/06/23 05:40	1
o-Terphenyl	72		70 - 130				06/05/23 10:57	06/06/23 05:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.0		4.99		mg/Kg			06/05/23 22:05	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

Client Sample ID: AH-9 (1-1.5')

Lab Sample ID: 890-4770-21

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Sample Depth: 1 - 1.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/05/23 15:06	06/07/23 00:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/05/23 15:06	06/07/23 00:56	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		06/05/23 15:06	06/07/23 00:56	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		06/05/23 15:06	06/07/23 00:56	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		06/05/23 15:06	06/07/23 00:56	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		06/05/23 15:06	06/07/23 00:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	06/05/23 15:06	06/07/23 00:56	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/05/23 15:06	06/07/23 00:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/07/23 10:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	535		49.8		mg/Kg			06/05/23 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/05/23 09:17	06/05/23 14:19	1
Diesel Range Organics (Over C10-C28)	416		49.8		mg/Kg		06/05/23 09:17	06/05/23 14:19	1
Oil Range Organics (Over C28-C36)	119		49.8		mg/Kg		06/05/23 09:17	06/05/23 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	06/05/23 09:17	06/05/23 14:19	1
o-Terphenyl	106		70 - 130	06/05/23 09:17	06/05/23 14:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.9		4.98		mg/Kg			06/05/23 17:53	1

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Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4770-1	H-1 (0-1')	128	91
890-4770-1 MS	H-1 (0-1')	122	109
890-4770-1 MSD	H-1 (0-1')	126	94
890-4770-2	H-2 (0-1')	142 S1+	98
890-4770-3	H-3 (0-1')	139 S1+	96
890-4770-4	H-4 (0-1')	139 S1+	92
890-4770-5	H-5 (0-1')	149 S1+	95
890-4770-6	H-6 (0-1')	138 S1+	98
890-4770-7	H-7 (0-1')	144 S1+	96
890-4770-8	H-8 (0-1')	130	86
890-4770-9	H-9 (0-1')	142 S1+	95
890-4770-10	H-10 (0-1')	130	86
890-4770-11	AH-1 (0-1')	122	81
890-4770-12	AH-2 (0-1')	140 S1+	93
890-4770-13	AH-3 (0-1')	149 S1+	93
890-4770-14	AH-4 (0-1')	154 S1+	100
890-4770-15	AH-5 (0-1')	147 S1+	89
890-4770-16	AH-5 (1-1.5')	154 S1+	94
890-4770-17	AH-6 (0-1')	161 S1+	94
890-4770-18	AH-7 (0-1')	137 S1+	84
890-4770-19	AH-8 (0-1')	142 S1+	86
890-4770-20	AH-9 (0-1')	146 S1+	86
890-4770-21	AH-9 (1-1.5')	84	97
890-4770-21 MS	AH-9 (1-1.5')	93	95
890-4770-21 MSD	AH-9 (1-1.5')	96	101
LCS 880-54777/1-A	Lab Control Sample	105	82
LCS 880-54780/1-A	Lab Control Sample	96	95
LCSD 880-54777/2-A	Lab Control Sample Dup	112	99
LCSD 880-54780/2-A	Lab Control Sample Dup	95	89
MB 880-54777/5-A	Method Blank	75	88
MB 880-54780/5-A	Method Blank	90	117
MB 880-54853/5-A	Method Blank	86	108

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-29062-A-21-C MS	Matrix Spike	111	101
880-29062-A-21-D MSD	Matrix Spike Duplicate	123	118
890-4770-1	H-1 (0-1')	115	88
890-4770-2	H-2 (0-1')	121	92
890-4770-2 MS	H-2 (0-1')	126	88
890-4770-2 MSD	H-2 (0-1')	129	90
890-4770-3	H-3 (0-1')	108	82

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Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-4770-1

Project/Site: MLMU SATELLITE 2

SDG: 212C-MD-03133 TASK 100

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4770-4	H-4 (0-1')	111	85
890-4770-5	H-5 (0-1')	113	87
890-4770-6	H-6 (0-1')	102	76
890-4770-7	H-7 (0-1')	104	79
890-4770-8	H-8 (0-1')	109	83
890-4770-9	H-9 (0-1')	114	87
890-4770-10	H-10 (0-1')	114	87
890-4770-11	AH-1 (0-1')	99	76
890-4770-12	AH-2 (0-1')	106	77
890-4770-13	AH-3 (0-1')	99	74
890-4770-14	AH-4 (0-1')	104	80
890-4770-15	AH-5 (0-1')	101	77
890-4770-16	AH-5 (1-1.5')	114	89
890-4770-17	AH-6 (0-1')	100	77
890-4770-18	AH-7 (0-1')	103	79
890-4770-19	AH-8 (0-1')	105	81
890-4770-20	AH-9 (0-1')	95	72
890-4770-21	AH-9 (1-1.5')	115	106
LCS 880-54721/2-A	Lab Control Sample	101	101
LCS 880-54739/2-A	Lab Control Sample	118	92
LCSD 880-54721/3-A	Lab Control Sample Dup	103	103
LCSD 880-54739/3-A	Lab Control Sample Dup	100	77
MB 880-54721/1-A	Method Blank	115	121
MB 880-54739/1-A	Method Blank	10 S1-	8 S1-

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-54777/5-A

Matrix: Solid

Analysis Batch: 54872

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54777

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 14:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 14:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 14:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/05/23 14:53	06/06/23 14:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/05/23 14:53	06/06/23 14:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/05/23 14:53	06/06/23 14:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	06/05/23 14:53	06/06/23 14:45	1
1,4-Difluorobenzene (Surr)	88		70 - 130	06/05/23 14:53	06/06/23 14:45	1

Lab Sample ID: LCS 880-54777/1-A

Matrix: Solid

Analysis Batch: 54872

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54777

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1258		mg/Kg		126	70 - 130
Toluene	0.100	0.1140		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.09965		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2133		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1042		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Lab Sample ID: LCSD 880-54777/2-A

Matrix: Solid

Analysis Batch: 54872

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54777

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1388	*+	mg/Kg		139	70 - 130	10	35
Toluene	0.100	0.1232		mg/Kg		123	70 - 130	8	35
Ethylbenzene	0.100	0.1210		mg/Kg		121	70 - 130	19	35
m-Xylene & p-Xylene	0.200	0.2363		mg/Kg		118	70 - 130	10	35
o-Xylene	0.100	0.1141		mg/Kg		114	70 - 130	9	35

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

Lab Sample ID: 890-4770-1 MS

Matrix: Solid

Analysis Batch: 54872

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

Prep Type: Total/NA

Prep Batch: 54777

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U *	0.101	0.1229		mg/Kg		122	70 - 130
Toluene	<0.00201	U	0.101	0.09436		mg/Kg		94	70 - 130

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: 890-4770-1 MS

Matrix: Solid

Analysis Batch: 54872

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

Prep Type: Total/NA

Prep Batch: 54777

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.101	0.07856		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1487		mg/Kg		74	70 - 130
o-Xylene	<0.00201	U	0.101	0.07288		mg/Kg		72	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-4770-1 MSD

Matrix: Solid

Analysis Batch: 54872

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

Prep Type: Total/NA

Prep Batch: 54777

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U *	0.100	0.1218		mg/Kg		122	70 - 130	1	35
Toluene	<0.00201	U	0.100	0.09926		mg/Kg		99	70 - 130	5	35
Ethylbenzene	<0.00201	U	0.100	0.08703		mg/Kg		87	70 - 130	10	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1524		mg/Kg		76	70 - 130	2	35
o-Xylene	<0.00201	U	0.100	0.07820		mg/Kg		78	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 880-54780/5-A

Matrix: Solid

Analysis Batch: 54839

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/05/23 15:06	06/07/23 00:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/05/23 15:06	06/07/23 00:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/05/23 15:06	06/07/23 00:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/05/23 15:06	06/07/23 00:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/05/23 15:06	06/07/23 00:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/05/23 15:06	06/07/23 00:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	06/05/23 15:06	06/07/23 00:27	1
1,4-Difluorobenzene (Surr)	117		70 - 130	06/05/23 15:06	06/07/23 00:27	1

Lab Sample ID: LCS 880-54780/1-A

Matrix: Solid

Analysis Batch: 54839

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1219		mg/Kg		122	70 - 130
Toluene	0.100	0.1184		mg/Kg		118	70 - 130
Ethylbenzene	0.100	0.09711		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.1993		mg/Kg		100	70 - 130

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: LCS 880-54780/1-A

Matrix: Solid

Analysis Batch: 54839

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09755		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-54780/2-A

Matrix: Solid

Analysis Batch: 54839

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54780

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1212		mg/Kg		121	70 - 130	1	35
Toluene	0.100	0.1164		mg/Kg		116	70 - 130	2	35
Ethylbenzene	0.100	0.1012		mg/Kg		101	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1920		mg/Kg		96	70 - 130	4	35
o-Xylene	0.100	0.09294		mg/Kg		93	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 890-4770-21 MS

Matrix: Solid

Analysis Batch: 54839

Client Sample ID: AH-9 (1-1.5')

Prep Type: Total/NA

Prep Batch: 54780

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.1054		mg/Kg		105	70 - 130
Toluene	<0.00199	U	0.101	0.08777		mg/Kg		87	70 - 130
Ethylbenzene	<0.00199	U F1	0.101	0.05889	F1	mg/Kg		58	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1137	F1	mg/Kg		56	70 - 130
o-Xylene	<0.00199	U F1	0.101	0.05562	F1	mg/Kg		55	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-4770-21 MSD

Matrix: Solid

Analysis Batch: 54839

Client Sample ID: AH-9 (1-1.5')

Prep Type: Total/NA

Prep Batch: 54780

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00199	U	0.101	0.09741		mg/Kg		97	70 - 130	8	35
Toluene	<0.00199	U	0.101	0.08363		mg/Kg		83	70 - 130	5	35
Ethylbenzene	<0.00199	U F1	0.101	0.05669	F1	mg/Kg		56	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.1109	F1	mg/Kg		55	70 - 130	3	35
o-Xylene	<0.00199	U F1	0.101	0.05535	F1	mg/Kg		55	70 - 130	0	35

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: 890-4770-21 MSD

Matrix: Solid

Analysis Batch: 54839

Client Sample ID: AH-9 (1-1.5')

Prep Type: Total/NA

Prep Batch: 54780

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-54853/5-A

Matrix: Solid

Analysis Batch: 54839

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54853

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		06/06/23 10:01	06/06/23 12:50	1	
Toluene	<0.00200	U	0.00200		mg/Kg		06/06/23 10:01	06/06/23 12:50	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/06/23 10:01	06/06/23 12:50	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/06/23 10:01	06/06/23 12:50	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/06/23 10:01	06/06/23 12:50	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/06/23 10:01	06/06/23 12:50	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	86		70 - 130				06/06/23 10:01	06/06/23 12:50	1	
1,4-Difluorobenzene (Surr)	108		70 - 130				06/06/23 10:01	06/06/23 12:50	1	

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

Lab Sample ID: MB 880-54721/1-A

Matrix: Solid

Analysis Batch: 54716

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54721

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/05/23 08:00	06/05/23 08:21	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/05/23 08:00	06/05/23 08:21	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/05/23 08:00	06/05/23 08:21	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	115		70 - 130				06/05/23 08:00	06/05/23 08:21	1	
o-Terphenyl	121		70 - 130				06/05/23 08:00	06/05/23 08:21	1	

Lab Sample ID: LCS 880-54721/2-A

Matrix: Solid

Analysis Batch: 54716

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54721

		Spike	LCS	LCS				%Rec		
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10		1000	1206		mg/Kg		121	70 - 130		
Diesel Range Organics (Over C10-C28)		1000	917.6		mg/Kg		92	70 - 130		
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	101		70 - 130							
o-Terphenyl	101		70 - 130							

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: LCSD 880-54721/3-A

Matrix: Solid

Analysis Batch: 54716

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54721

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1211		mg/Kg		121	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	910.3		mg/Kg		91	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	103		70 - 130						
o-Terphenyl	103		70 - 130						

Lab Sample ID: 880-29062-A-21-C MS

Matrix: Solid

Analysis Batch: 54716

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 54721

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1039		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1051		mg/Kg		105	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	111		70 - 130								
o-Terphenyl	101		70 - 130								

Lab Sample ID: 880-29062-A-21-D MSD

Matrix: Solid

Analysis Batch: 54716

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 54721

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1183		mg/Kg		114	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1214		mg/Kg		122	70 - 130	14	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	123		70 - 130								
o-Terphenyl	118		70 - 130								

Lab Sample ID: MB 880-54739/1-A

Matrix: Solid

Analysis Batch: 54713

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/05/23 10:57	06/05/23 21:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/05/23 10:57	06/05/23 21:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/05/23 10:57	06/05/23 21:06	1

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: MB 880-54739/1-A

Matrix: Solid

Analysis Batch: 54713

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54739

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier					
1-Chlorooctane	10	S1-	70 - 130	06/05/23 10:57	06/05/23 21:06	1
o-Terphenyl	8	S1-	70 - 130	06/05/23 10:57	06/05/23 21:06	1

Lab Sample ID: LCS 880-54739/2-A

Matrix: Solid

Analysis Batch: 54713

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54739

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1009		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	970.6		mg/Kg		97	70 - 130

Surrogate	LCS	LCS	Limits
%Recovery	Qualifier		
1-Chlorooctane	118		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-54739/3-A

Matrix: Solid

Analysis Batch: 54713

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54739

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	976.1		mg/Kg		98	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	973.6		mg/Kg		97	70 - 130	0	20

Surrogate	LCSD	LCSD	Limits
%Recovery	Qualifier		
1-Chlorooctane	100		70 - 130
o-Terphenyl	77		70 - 130

Lab Sample ID: 890-4770-2 MS

Matrix: Solid

Analysis Batch: 54713

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

Prep Type: Total/NA

Prep Batch: 54739

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	923.8		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	801.8		mg/Kg		78	70 - 130

Surrogate	MS	MS	Limits
%Recovery	Qualifier		
1-Chlorooctane	126		70 - 130
o-Terphenyl	88		70 - 130

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: 890-4770-2 MSD

Matrix: Solid

Analysis Batch: 54713

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

Prep Type: Total/NA

Prep Batch: 54739

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	925.6		mg/Kg		90	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	823.6		mg/Kg		80	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	129		70 - 130								
o-Terphenyl	90		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-54668/1-A

Matrix: Solid

Analysis Batch: 54798

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/05/23 16:31	1

Lab Sample ID: LCS 880-54668/2-A

Matrix: Solid

Analysis Batch: 54798

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.6		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-54668/3-A

Matrix: Solid

Analysis Batch: 54798

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	246.3		mg/Kg		99	90 - 110	6	20

Lab Sample ID: 890-4771-A-8-E MS

Matrix: Solid

Analysis Batch: 54798

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1200		250	1419	4	mg/Kg		89	90 - 110

Lab Sample ID: 890-4771-A-8-F MSD

Matrix: Solid

Analysis Batch: 54798

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1200		250	1412	4	mg/Kg		86	90 - 110	0	20

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-54669/1-A

Matrix: Solid

Analysis Batch: 54800

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/05/23 19:21	1

Lab Sample ID: LCS 880-54669/2-A

Matrix: Solid

Analysis Batch: 54800

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.0		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-54669/3-A

Matrix: Solid

Analysis Batch: 54800

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	255.8		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 890-4770-1 MS

Matrix: Solid

Analysis Batch: 54800

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	53.9	F1	252	272.0	F1	mg/Kg		87	90 - 110

Lab Sample ID: 890-4770-1 MSD

Matrix: Solid

Analysis Batch: 54800

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	53.9	F1	252	267.1	F1	mg/Kg		85	90 - 110	2	20

Lab Sample ID: 890-4770-11 MS

Matrix: Solid

Analysis Batch: 54800

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	39.6		251	302.7		mg/Kg		105	90 - 110

Lab Sample ID: 890-4770-11 MSD

Matrix: Solid

Analysis Batch: 54800

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	39.6		251	301.9		mg/Kg		105	90 - 110	0	20

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QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

GC VOA

Prep Batch: 54777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4770-1	H-1 (0-1')	Total/NA	Solid	5035	
890-4770-2	H-2 (0-1')	Total/NA	Solid	5035	
890-4770-3	H-3 (0-1')	Total/NA	Solid	5035	
890-4770-4	H-4 (0-1')	Total/NA	Solid	5035	
890-4770-5	H-5 (0-1')	Total/NA	Solid	5035	
890-4770-6	H-6 (0-1')	Total/NA	Solid	5035	
890-4770-7	H-7 (0-1')	Total/NA	Solid	5035	
890-4770-8	H-8 (0-1')	Total/NA	Solid	5035	
890-4770-9	H-9 (0-1')	Total/NA	Solid	5035	
890-4770-10	H-10 (0-1')	Total/NA	Solid	5035	
890-4770-11	AH-1 (0-1')	Total/NA	Solid	5035	
890-4770-12	AH-2 (0-1')	Total/NA	Solid	5035	
890-4770-13	AH-3 (0-1')	Total/NA	Solid	5035	
890-4770-14	AH-4 (0-1')	Total/NA	Solid	5035	
890-4770-15	AH-5 (0-1')	Total/NA	Solid	5035	
890-4770-16	AH-5 (1-1.5')	Total/NA	Solid	5035	
890-4770-17	AH-6 (0-1')	Total/NA	Solid	5035	
890-4770-18	AH-7 (0-1')	Total/NA	Solid	5035	
890-4770-19	AH-8 (0-1')	Total/NA	Solid	5035	
890-4770-20	AH-9 (0-1')	Total/NA	Solid	5035	
MB 880-54777/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54777/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54777/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4770-1 MS	H-1 (0-1')	Total/NA	Solid	5035	
890-4770-1 MSD	H-1 (0-1')	Total/NA	Solid	5035	

Prep Batch: 54780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4770-21	AH-9 (1-1.5')	Total/NA	Solid	5035	
MB 880-54780/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-54780/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-54780/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4770-21 MS	AH-9 (1-1.5')	Total/NA	Solid	5035	
890-4770-21 MSD	AH-9 (1-1.5')	Total/NA	Solid	5035	

Analysis Batch: 54839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4770-21	AH-9 (1-1.5')	Total/NA	Solid	8021B	54780
MB 880-54780/5-A	Method Blank	Total/NA	Solid	8021B	54780
MB 880-54853/5-A	Method Blank	Total/NA	Solid	8021B	54853
LCS 880-54780/1-A	Lab Control Sample	Total/NA	Solid	8021B	54780
LCSD 880-54780/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54780
890-4770-21 MS	AH-9 (1-1.5')	Total/NA	Solid	8021B	54780
890-4770-21 MSD	AH-9 (1-1.5')	Total/NA	Solid	8021B	54780

Prep Batch: 54853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-54853/5-A	Method Blank	Total/NA	Solid	5035	

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QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

GC VOA

Analysis Batch: 54872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4770-1	H-1 (0-1')	Total/NA	Solid	8021B	54777
890-4770-2	H-2 (0-1')	Total/NA	Solid	8021B	54777
890-4770-3	H-3 (0-1')	Total/NA	Solid	8021B	54777
890-4770-4	H-4 (0-1')	Total/NA	Solid	8021B	54777
890-4770-5	H-5 (0-1')	Total/NA	Solid	8021B	54777
890-4770-6	H-6 (0-1')	Total/NA	Solid	8021B	54777
890-4770-7	H-7 (0-1')	Total/NA	Solid	8021B	54777
890-4770-8	H-8 (0-1')	Total/NA	Solid	8021B	54777
890-4770-9	H-9 (0-1')	Total/NA	Solid	8021B	54777
890-4770-10	H-10 (0-1')	Total/NA	Solid	8021B	54777
890-4770-11	AH-1 (0-1')	Total/NA	Solid	8021B	54777
890-4770-12	AH-2 (0-1')	Total/NA	Solid	8021B	54777
890-4770-13	AH-3 (0-1')	Total/NA	Solid	8021B	54777
890-4770-14	AH-4 (0-1')	Total/NA	Solid	8021B	54777
890-4770-15	AH-5 (0-1')	Total/NA	Solid	8021B	54777
890-4770-16	AH-5 (1-1.5')	Total/NA	Solid	8021B	54777
890-4770-17	AH-6 (0-1')	Total/NA	Solid	8021B	54777
890-4770-18	AH-7 (0-1')	Total/NA	Solid	8021B	54777
890-4770-19	AH-8 (0-1')	Total/NA	Solid	8021B	54777
890-4770-20	AH-9 (0-1')	Total/NA	Solid	8021B	54777
MB 880-54777/5-A	Method Blank	Total/NA	Solid	8021B	54777
LCS 880-54777/1-A	Lab Control Sample	Total/NA	Solid	8021B	54777
LCSD 880-54777/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	54777
890-4770-1 MS	H-1 (0-1')	Total/NA	Solid	8021B	54777
890-4770-1 MSD	H-1 (0-1')	Total/NA	Solid	8021B	54777

Analysis Batch: 54955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4770-1	H-1 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-2	H-2 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-3	H-3 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-4	H-4 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-5	H-5 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-6	H-6 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-7	H-7 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-8	H-8 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-9	H-9 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-10	H-10 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-11	AH-1 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-12	AH-2 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-13	AH-3 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-14	AH-4 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-15	AH-5 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-16	AH-5 (1-1.5')	Total/NA	Solid	Total BTEX	
890-4770-17	AH-6 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-18	AH-7 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-19	AH-8 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-20	AH-9 (0-1')	Total/NA	Solid	Total BTEX	
890-4770-21	AH-9 (1-1.5')	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

GC Semi VOA

Analysis Batch: 54713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4770-1	H-1 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-2	H-2 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-3	H-3 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-4	H-4 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-5	H-5 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-6	H-6 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-7	H-7 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-8	H-8 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-9	H-9 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-10	H-10 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-11	AH-1 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-12	AH-2 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-13	AH-3 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-14	AH-4 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-15	AH-5 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-16	AH-5 (1-1.5')	Total/NA	Solid	8015B NM	54739
890-4770-17	AH-6 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-18	AH-7 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-19	AH-8 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-20	AH-9 (0-1')	Total/NA	Solid	8015B NM	54739
MB 880-54739/1-A	Method Blank	Total/NA	Solid	8015B NM	54739
LCS 880-54739/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54739
LCSD 880-54739/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54739
890-4770-2 MS	H-2 (0-1')	Total/NA	Solid	8015B NM	54739
890-4770-2 MSD	H-2 (0-1')	Total/NA	Solid	8015B NM	54739

Analysis Batch: 54716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4770-21	AH-9 (1-1.5')	Total/NA	Solid	8015B NM	54721
MB 880-54721/1-A	Method Blank	Total/NA	Solid	8015B NM	54721
LCS 880-54721/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	54721
LCSD 880-54721/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	54721
880-29062-A-21-C MS	Matrix Spike	Total/NA	Solid	8015B NM	54721
880-29062-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	54721

Prep Batch: 54721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4770-21	AH-9 (1-1.5')	Total/NA	Solid	8015NM Prep	
MB 880-54721/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54721/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54721/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29062-A-21-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-29062-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 54739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4770-1	H-1 (0-1')	Total/NA	Solid	8015NM Prep	
890-4770-2	H-2 (0-1')	Total/NA	Solid	8015NM Prep	
890-4770-3	H-3 (0-1')	Total/NA	Solid	8015NM Prep	
890-4770-4	H-4 (0-1')	Total/NA	Solid	8015NM Prep	
890-4770-5	H-5 (0-1')	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

GC Semi VOA (Continued)

Prep Batch: 54739 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4770-6	H-6 (0-1')	Total/NA	Solid	8015NM Prep	
890-4770-7	H-7 (0-1')	Total/NA	Solid	8015NM Prep	
890-4770-8	H-8 (0-1')	Total/NA	Solid	8015NM Prep	
890-4770-9	H-9 (0-1')	Total/NA	Solid	8015NM Prep	
890-4770-10	H-10 (0-1')	Total/NA	Solid	8015NM Prep	
890-4770-11	AH-1 (0-1')	Total/NA	Solid	8015NM Prep	
890-4770-12	AH-2 (0-1')	Total/NA	Solid	8015NM Prep	
890-4770-13	AH-3 (0-1')	Total/NA	Solid	8015NM Prep	
890-4770-14	AH-4 (0-1')	Total/NA	Solid	8015NM Prep	
890-4770-15	AH-5 (0-1')	Total/NA	Solid	8015NM Prep	
890-4770-16	AH-5 (1-1.5')	Total/NA	Solid	8015NM Prep	
890-4770-17	AH-6 (0-1')	Total/NA	Solid	8015NM Prep	
890-4770-18	AH-7 (0-1')	Total/NA	Solid	8015NM Prep	
890-4770-19	AH-8 (0-1')	Total/NA	Solid	8015NM Prep	
890-4770-20	AH-9 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-54739/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-54739/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-54739/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4770-2 MS	H-2 (0-1')	Total/NA	Solid	8015NM Prep	
890-4770-2 MSD	H-2 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 54819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4770-1	H-1 (0-1')	Total/NA	Solid	8015 NM	
890-4770-2	H-2 (0-1')	Total/NA	Solid	8015 NM	
890-4770-3	H-3 (0-1')	Total/NA	Solid	8015 NM	
890-4770-4	H-4 (0-1')	Total/NA	Solid	8015 NM	
890-4770-5	H-5 (0-1')	Total/NA	Solid	8015 NM	
890-4770-6	H-6 (0-1')	Total/NA	Solid	8015 NM	
890-4770-7	H-7 (0-1')	Total/NA	Solid	8015 NM	
890-4770-8	H-8 (0-1')	Total/NA	Solid	8015 NM	
890-4770-9	H-9 (0-1')	Total/NA	Solid	8015 NM	
890-4770-10	H-10 (0-1')	Total/NA	Solid	8015 NM	
890-4770-11	AH-1 (0-1')	Total/NA	Solid	8015 NM	
890-4770-12	AH-2 (0-1')	Total/NA	Solid	8015 NM	
890-4770-13	AH-3 (0-1')	Total/NA	Solid	8015 NM	
890-4770-14	AH-4 (0-1')	Total/NA	Solid	8015 NM	
890-4770-15	AH-5 (0-1')	Total/NA	Solid	8015 NM	
890-4770-16	AH-5 (1-1.5')	Total/NA	Solid	8015 NM	
890-4770-17	AH-6 (0-1')	Total/NA	Solid	8015 NM	
890-4770-18	AH-7 (0-1')	Total/NA	Solid	8015 NM	
890-4770-19	AH-8 (0-1')	Total/NA	Solid	8015 NM	
890-4770-20	AH-9 (0-1')	Total/NA	Solid	8015 NM	
890-4770-21	AH-9 (1-1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 54668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4770-21	AH-9 (1-1.5')	Soluble	Solid	DI Leach	
MB 880-54668/1-A	Method Blank	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

HPLC/IC (Continued)

Leach Batch: 54668 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-54668/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54668/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4771-A-8-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4771-A-8-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 54669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4770-1	H-1 (0-1')	Soluble	Solid	DI Leach	
890-4770-2	H-2 (0-1')	Soluble	Solid	DI Leach	
890-4770-3	H-3 (0-1')	Soluble	Solid	DI Leach	
890-4770-4	H-4 (0-1')	Soluble	Solid	DI Leach	
890-4770-5	H-5 (0-1')	Soluble	Solid	DI Leach	
890-4770-6	H-6 (0-1')	Soluble	Solid	DI Leach	
890-4770-7	H-7 (0-1')	Soluble	Solid	DI Leach	
890-4770-8	H-8 (0-1')	Soluble	Solid	DI Leach	
890-4770-9	H-9 (0-1')	Soluble	Solid	DI Leach	
890-4770-10	H-10 (0-1')	Soluble	Solid	DI Leach	
890-4770-11	AH-1 (0-1')	Soluble	Solid	DI Leach	
890-4770-12	AH-2 (0-1')	Soluble	Solid	DI Leach	
890-4770-13	AH-3 (0-1')	Soluble	Solid	DI Leach	
890-4770-14	AH-4 (0-1')	Soluble	Solid	DI Leach	
890-4770-15	AH-5 (0-1')	Soluble	Solid	DI Leach	
890-4770-16	AH-5 (1-1.5')	Soluble	Solid	DI Leach	
890-4770-17	AH-6 (0-1')	Soluble	Solid	DI Leach	
890-4770-18	AH-7 (0-1')	Soluble	Solid	DI Leach	
890-4770-19	AH-8 (0-1')	Soluble	Solid	DI Leach	
890-4770-20	AH-9 (0-1')	Soluble	Solid	DI Leach	
MB 880-54669/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54669/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54669/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4770-1 MS	H-1 (0-1')	Soluble	Solid	DI Leach	
890-4770-1 MSD	H-1 (0-1')	Soluble	Solid	DI Leach	
890-4770-11 MS	AH-1 (0-1')	Soluble	Solid	DI Leach	
890-4770-11 MSD	AH-1 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 54798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4770-21	AH-9 (1-1.5')	Soluble	Solid	300.0	54668
MB 880-54668/1-A	Method Blank	Soluble	Solid	300.0	54668
LCS 880-54668/2-A	Lab Control Sample	Soluble	Solid	300.0	54668
LCSD 880-54668/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54668
890-4771-A-8-E MS	Matrix Spike	Soluble	Solid	300.0	54668
890-4771-A-8-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	54668

Analysis Batch: 54800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4770-1	H-1 (0-1')	Soluble	Solid	300.0	54669
890-4770-2	H-2 (0-1')	Soluble	Solid	300.0	54669
890-4770-3	H-3 (0-1')	Soluble	Solid	300.0	54669
890-4770-4	H-4 (0-1')	Soluble	Solid	300.0	54669
890-4770-5	H-5 (0-1')	Soluble	Solid	300.0	54669

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QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

HPLC/IC (Continued)

Analysis Batch: 54800 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4770-6	H-6 (0-1')	Soluble	Solid	300.0	54669
890-4770-7	H-7 (0-1')	Soluble	Solid	300.0	54669
890-4770-8	H-8 (0-1')	Soluble	Solid	300.0	54669
890-4770-9	H-9 (0-1')	Soluble	Solid	300.0	54669
890-4770-10	H-10 (0-1')	Soluble	Solid	300.0	54669
890-4770-11	AH-1 (0-1')	Soluble	Solid	300.0	54669
890-4770-12	AH-2 (0-1')	Soluble	Solid	300.0	54669
890-4770-13	AH-3 (0-1')	Soluble	Solid	300.0	54669
890-4770-14	AH-4 (0-1')	Soluble	Solid	300.0	54669
890-4770-15	AH-5 (0-1')	Soluble	Solid	300.0	54669
890-4770-16	AH-5 (1-1.5')	Soluble	Solid	300.0	54669
890-4770-17	AH-6 (0-1')	Soluble	Solid	300.0	54669
890-4770-18	AH-7 (0-1')	Soluble	Solid	300.0	54669
890-4770-19	AH-8 (0-1')	Soluble	Solid	300.0	54669
890-4770-20	AH-9 (0-1')	Soluble	Solid	300.0	54669
MB 880-54669/1-A	Method Blank	Soluble	Solid	300.0	54669
LCS 880-54669/2-A	Lab Control Sample	Soluble	Solid	300.0	54669
LCSD 880-54669/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54669
890-4770-1 MS	H-1 (0-1')	Soluble	Solid	300.0	54669
890-4770-1 MSD	H-1 (0-1')	Soluble	Solid	300.0	54669
890-4770-11 MS	AH-1 (0-1')	Soluble	Solid	300.0	54669
890-4770-11 MSD	AH-1 (0-1')	Soluble	Solid	300.0	54669

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

Client Sample ID: H-1 (0-1')
Date Collected: 05/31/23 00:00
Date Received: 06/01/23 16:45

Lab Sample ID: 890-4770-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/06/23 15:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 04:15	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 19:38	CH	EET MID

Client Sample ID: H-2 (0-1')
Date Collected: 05/31/23 00:00
Date Received: 06/01/23 16:45

Lab Sample ID: 890-4770-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/06/23 15:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/05/23 22:57	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 19:54	CH	EET MID

Client Sample ID: H-3 (0-1')
Date Collected: 05/31/23 00:00
Date Received: 06/01/23 16:45

Lab Sample ID: 890-4770-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/06/23 16:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 06:43	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 20:00	CH	EET MID

Client Sample ID: H-4 (0-1')
Date Collected: 05/31/23 00:00
Date Received: 06/01/23 16:45

Lab Sample ID: 890-4770-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/06/23 16:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID

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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

Client Sample ID: H-4 (0-1')
Date Collected: 05/31/23 00:00
Date Received: 06/01/23 16:45

Lab Sample ID: 890-4770-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 00:01	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 20:05	CH	EET MID

Client Sample ID: H-5 (0-1')
Date Collected: 05/31/23 00:00
Date Received: 06/01/23 16:45

Lab Sample ID: 890-4770-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/06/23 16:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 00:23	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 20:11	CH	EET MID

Client Sample ID: H-6 (0-1')
Date Collected: 05/31/23 00:00
Date Received: 06/01/23 16:45

Lab Sample ID: 890-4770-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/06/23 17:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 00:44	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 20:27	CH	EET MID

Client Sample ID: H-7 (0-1')
Date Collected: 05/31/23 00:00
Date Received: 06/01/23 16:45

Lab Sample ID: 890-4770-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/06/23 17:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 01:05	SM	EET MID

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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

Client Sample ID: H-7 (0-1')
Date Collected: 05/31/23 00:00
Date Received: 06/01/23 16:45

Lab Sample ID: 890-4770-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 20:33	CH	EET MID

Client Sample ID: H-8 (0-1')
Date Collected: 05/31/23 00:00
Date Received: 06/01/23 16:45

Lab Sample ID: 890-4770-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/06/23 18:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 01:26	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 20:38	CH	EET MID

Client Sample ID: H-9 (0-1')
Date Collected: 05/31/23 00:00
Date Received: 06/01/23 16:45

Lab Sample ID: 890-4770-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/06/23 18:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 01:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 20:44	CH	EET MID

Client Sample ID: H-10 (0-1')
Date Collected: 05/31/23 00:00
Date Received: 06/01/23 16:45

Lab Sample ID: 890-4770-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/06/23 19:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 04:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 20:49	CH	EET MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

Client Sample ID: AH-1 (0-1')
Date Collected: 05/31/23 00:00
Date Received: 06/01/23 16:45

Lab Sample ID: 890-4770-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/06/23 20:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 04:57	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 20:55	CH	EET MID

Client Sample ID: AH-2 (0-1')
Date Collected: 05/31/23 00:00
Date Received: 06/01/23 16:45

Lab Sample ID: 890-4770-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/06/23 21:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 03:33	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 21:11	CH	EET MID

Client Sample ID: AH-3 (0-1')
Date Collected: 05/31/23 00:00
Date Received: 06/01/23 16:45

Lab Sample ID: 890-4770-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/06/23 21:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 03:54	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 21:16	CH	EET MID

Client Sample ID: AH-4 (0-1')
Date Collected: 05/31/23 00:00
Date Received: 06/01/23 16:45

Lab Sample ID: 890-4770-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/06/23 22:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Lab Sample ID: 890-4770-14

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 02:08	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 21:33	CH	EET MID

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

Lab Sample ID: 890-4770-15

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/06/23 22:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 02:51	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 21:38	CH	EET MID

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

Lab Sample ID: 890-4770-16

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/06/23 23:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 02:30	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 21:44	CH	EET MID

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

Lab Sample ID: 890-4770-17

Date Collected: 05/31/23 00:00

Matrix: Solid

Date Received: 06/01/23 16:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/06/23 23:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 06:22	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

Client Sample ID: AH-6 (0-1')**Lab Sample ID: 890-4770-17****Date Collected: 05/31/23 00:00****Matrix: Solid****Date Received: 06/01/23 16:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 21:49	CH	EET MID

Client Sample ID: AH-7 (0-1')**Lab Sample ID: 890-4770-18****Date Collected: 05/31/23 00:00****Matrix: Solid****Date Received: 06/01/23 16:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/06/23 23:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 06:00	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 21:55	CH	EET MID

Client Sample ID: AH-8 (0-1')**Lab Sample ID: 890-4770-19****Date Collected: 05/31/23 00:00****Matrix: Solid****Date Received: 06/01/23 16:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 00:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 05:18	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 22:00	CH	EET MID

Client Sample ID: AH-9 (0-1')**Lab Sample ID: 890-4770-20****Date Collected: 05/31/23 00:00****Matrix: Solid****Date Received: 06/01/23 16:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	54777	06/05/23 14:53	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54872	06/07/23 00:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/06/23 11:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	54739	06/05/23 10:57	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54713	06/06/23 05:40	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54669	06/02/23 16:38	KS	EET MID
Soluble	Analysis	300.0		1			54800	06/05/23 22:05	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

Client Sample ID: AH-9 (1-1.5')
Date Collected: 05/31/23 00:00
Date Received: 06/01/23 16:45

Lab Sample ID: 890-4770-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	54780	06/05/23 15:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	54839	06/07/23 00:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			54955	06/07/23 10:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			54819	06/05/23 16:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	54721	06/05/23 09:17	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	54716	06/05/23 14:19	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54668	06/02/23 16:37	KS	EET MID
Soluble	Analysis	300.0		1			54798	06/05/23 17:53	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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

Method Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU SATELLITE 2

Job ID: 890-4770-1
SDG: 212C-MD-03133 TASK 100

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4770-1	H-1 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-2	H-2 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-3	H-3 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-4	H-4 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-5	H-5 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-6	H-6 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-7	H-7 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-8	H-8 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-9	H-9 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-10	H-10 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-11	AH-1 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-12	AH-2 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-13	AH-3 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-14	AH-4 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-15	AH-5 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-16	AH-5 (1-1.5')	Solid	05/31/23 00:00	06/01/23 16:45	1 - 1.5
890-4770-17	AH-6 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-18	AH-7 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-19	AH-8 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-20	AH-9 (0-1')	Solid	05/31/23 00:00	06/01/23 16:45	0 - 1
890-4770-21	AH-9 (1-1.5')	Solid	05/31/23 00:00	06/01/23 16:45	1 - 1.5

Analysis Request of Chain of Custody Record

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6/7/2023



Tetra Tech, Inc.

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

Client Name:	JR Oil	Site Manager:	Brittany Long
Project Name:	MLMU Satellite 2	(432) 741-5813 Brittany.long@tetrattech.com	
Project Location: (county, state)	Lea County, NM	Project #:	212C-MD-03133 Task 100
Invoice to:	Accounts Payable 901 West Wall Street, Suit 100 Midland, Texas 79701		
Receiving Laboratory:	Eurofins Lab	Sampler Signature:	Jorge Fernandez
Comments:			

(Cir



890-4770 Chain of Custody

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX			PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8021B	TPH TX1005 (Ext to 1000)	TPH 8015M (GRO - 1000)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Sulfate	General Water Chemistry	Anion/Cation Balance			Hold																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
		YEAR: 2023		WATER	SOIL		HCL	HNO3	ICE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								</

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>Jorge Fernandez</i>	6-01-23		<i>Oliver Alf</i>	6-1-23	11:45
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature

22.6
2.4
12.2
10.2

REMARKS: Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY



ANALYSIS REQUEST
(Circle or Specify Method No.)

Page 51 of 54☐ Special Report Limits or TRRP Report

Released to Imaging: 5/30/2025 1:25:27 PM

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Received by OGD: 2/14/2025 2:33:49 PM
Released to Imaging: 5/30/2025 1:25:27 PM

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client Name: JR Oil
Project Name: MLMU Satellite 2
Project Location: (county, state) Lea County, NM
Invoice to: Accounts Payable 901 West Wall Street, Suit 100 Midland, Texas 79701
Receiving Laboratory: Eurofins Lab

Site Manager: Brittany Long
(432) 741-5813
Brittany.long@tetrattech.com
Project #: 212C-MD-03133 Task 100
Sampler Signature: Jorge Fernandez

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	
		YEAR: 2023		WATER	SOIL	HCL	HNO ₃	ICE				
		DATE	TIME									
	AH-9 (1-1.5')	5/31/2023			X				X			
		5/31/2023										
		5/31/2023										
		5/31/2023										
		5/31/2023										
		5/31/2023										
		5/31/2023										
		5/31/2023										
		5/31/2023										
		5/31/2023										

Relinquished by: *Jorge Fernandez* Date: 6-01-23 Time: *6:12*
Received by: *Clue AP* Date: 6-1-23 Time: *23*

Relinquished by: _____ Date: _____ Time: _____
Received by: _____ Date: _____ Time: _____

ANALYSIS REQUEST
(Circle or Specify Method No.)

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

LAB USE ONLY

REMARKS: Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

Sample Temperature: *Pg 1*

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-4770-1

SDG Number: 212C-MD-03133 TASK 100

Login Number: 4770

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
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	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-4770-1

SDG Number: 212C-MD-03133 TASK 100

Login Number: 4770

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 06/05/23 09:16 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



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

January 17, 2024

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MLMUI SATELLITE #2

Enclosed are the results of analyses for samples received by the laboratory on 01/12/24 8:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 1 (0-1') (H240144-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2024	ND	2.13	107	2.00	1.06	
Toluene*	<0.050	0.050	01/12/2024	ND	2.16	108	2.00	0.268	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645	
Total BTX	<0.300	0.300	01/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/15/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2024	ND	187	93.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	179	89.5	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 70.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 1 (2') (H240144-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.13	107	2.00	1.06		
Toluene*	<0.050	0.050	01/12/2024	ND	2.16	108	2.00	0.268		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645		
Total BTEX	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	01/15/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2024	ND	187	93.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	179	89.5	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 1 (3') (H240144-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.13	107	2.00	1.06		
Toluene*	<0.050	0.050	01/12/2024	ND	2.16	108	2.00	0.268		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645		
Total BTEX	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/15/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2024	ND	187	93.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	179	89.5	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 1 (4') (H240144-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.13	107	2.00	1.06		
Toluene*	<0.050	0.050	01/12/2024	ND	2.16	108	2.00	0.268		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645		
Total BTEX	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	01/15/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2024	ND	187	93.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	179	89.5	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 2 (0-1') (H240144-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.13	107	2.00	1.06		
Toluene*	<0.050	0.050	01/12/2024	ND	2.16	108	2.00	0.268		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645		
Total BTEx	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/15/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2024	ND	187	93.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	179	89.5	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 2 (2') (H240144-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.13	107	2.00	1.06		
Toluene*	<0.050	0.050	01/12/2024	ND	2.16	108	2.00	0.268		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645		
Total BTEX	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/15/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2024	ND	187	93.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	179	89.5	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 2 (3') (H240144-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.13	107	2.00	1.06		
Toluene*	<0.050	0.050	01/12/2024	ND	2.16	108	2.00	0.268		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645		
Total BTEX	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/15/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2024	ND	187	93.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	179	89.5	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 2 (4') (H240144-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.13	107	2.00	1.06		
Toluene*	<0.050	0.050	01/12/2024	ND	2.16	108	2.00	0.268		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645		
Total BTEX	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/15/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2024	ND	187	93.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	179	89.5	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.4 % 49.1-148

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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 3 (0-1') (H240144-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.13	107	2.00	1.06		
Toluene*	<0.050	0.050	01/12/2024	ND	2.16	108	2.00	0.268		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645		
Total BTEX	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	01/15/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2024	ND	187	93.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	179	89.5	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 70.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.5 % 49.1-148

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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 3 (2') (H240144-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.13	107	2.00	1.06		
Toluene*	<0.050	0.050	01/12/2024	ND	2.16	108	2.00	0.268		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645		
Total BTEX	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	01/15/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2024	ND	187	93.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	179	89.5	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 3 (3') (H240144-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.13	107	2.00	1.06		
Toluene*	<0.050	0.050	01/12/2024	ND	2.16	108	2.00	0.268		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645		
Total BTEX	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	01/15/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2024	ND	187	93.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	179	89.5	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 72.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.3 % 49.1-148

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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 3 (4') (H240144-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.13	107	2.00	1.06		
Toluene*	<0.050	0.050	01/12/2024	ND	2.16	108	2.00	0.268		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645		
Total BTEX	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	01/15/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 4 (0-1') (H240144-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.13	107	2.00	1.06		
Toluene*	<0.050	0.050	01/12/2024	ND	2.16	108	2.00	0.268		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645		
Total BTEX	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/15/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 4 (2') (H240144-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2024	ND	2.13	107	2.00	1.06	
Toluene*	<0.050	0.050	01/12/2024	ND	2.16	108	2.00	0.268	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645	
Total BTEX	<0.300	0.300	01/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/15/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 4 (3') (H240144-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.13	107	2.00	1.06		
Toluene*	<0.050	0.050	01/12/2024	ND	2.16	108	2.00	0.268		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645		
Total BTEX	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/15/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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

Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 4 (4') (H240144-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	2.13	107	2.00	1.06		
Toluene*	<0.050	0.050	01/12/2024	ND	2.16	108	2.00	0.268		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645		
Total BTEX	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/15/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 5 (0-1') (H240144-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2024	ND	2.13	107	2.00	1.06	
Toluene*	0.058	0.050	01/12/2024	ND	2.16	108	2.00	0.268	
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.18	109	2.00	0.481	
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.62	110	6.00	0.645	
Total BTEX	<0.300	0.300	01/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	01/15/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 5 (2') (H240144-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.073	0.050	01/12/2024	ND	2.13	107	2.00	1.06		
Toluene*	0.269	0.050	01/12/2024	ND	2.16	108	2.00	0.268		
Ethylbenzene*	0.111	0.050	01/12/2024	ND	2.18	109	2.00	0.481		
Total Xylenes*	0.221	0.150	01/12/2024	ND	6.62	110	6.00	0.645		
Total BTEX	0.674	0.300	01/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	01/15/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	13.5	10.0	01/12/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/12/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/12/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 5 (3') (H240144-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	1.94	96.9	2.00	1.98		
Toluene*	<0.050	0.050	01/12/2024	ND	2.06	103	2.00	2.36		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	2.74		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.28	105	6.00	2.70		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/15/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 71.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 49.1-148

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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 5 (4') (H240144-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	1.94	96.9	2.00	1.98		
Toluene*	<0.050	0.050	01/12/2024	ND	2.06	103	2.00	2.36		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	2.74		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.28	105	6.00	2.70		
Total BTEX	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	01/15/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 6 (0-1') (H240144-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	1.94	96.9	2.00	1.98		
Toluene*	<0.050	0.050	01/12/2024	ND	2.06	103	2.00	2.36		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	2.74		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.28	105	6.00	2.70		
Total BTEX	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/15/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 6 (2') (H240144-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	1.94	96.9	2.00	1.98		
Toluene*	<0.050	0.050	01/12/2024	ND	2.06	103	2.00	2.36		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	2.74		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.28	105	6.00	2.70		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/15/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 6 (3') (H240144-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	1.94	96.9	2.00	1.98		
Toluene*	<0.050	0.050	01/12/2024	ND	2.06	103	2.00	2.36		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	2.74		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.28	105	6.00	2.70		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/15/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 6 (4') (H240144-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	1.94	96.9	2.00	1.98		
Toluene*	<0.050	0.050	01/12/2024	ND	2.06	103	2.00	2.36		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	2.74		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.28	105	6.00	2.70		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/15/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/13/2024	ND	198	99.2	200	2.17	
DRO >C10-C28*	<10.0	10.0	01/13/2024	ND	206	103	200	0.521	
EXT DRO >C28-C36	<10.0	10.0	01/13/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 7 (0-1') (H240144-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	1.94	96.9	2.00	1.98		
Toluene*	<0.050	0.050	01/12/2024	ND	2.06	103	2.00	2.36		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	2.74		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.28	105	6.00	2.70		
Total BTEX	<0.300	0.300	01/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/15/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2024	ND	180	90.1	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	190	95.1	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 7 (2') (H240144-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	1.94	96.9	2.00	1.98		
Toluene*	<0.050	0.050	01/12/2024	ND	2.06	103	2.00	2.36		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	2.74		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.28	105	6.00	2.70		
Total BTEX	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/15/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2024	ND	180	90.1	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	190	95.1	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 7 (3') (H240144-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	1.94	96.9	2.00	1.98		
Toluene*	<0.050	0.050	01/12/2024	ND	2.06	103	2.00	2.36		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	2.74		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.28	105	6.00	2.70		
Total BTEX	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/15/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2024	ND	180	90.1	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	190	95.1	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/12/2024
Reported: 01/17/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/11/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: T - 7 (4') (H240144-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2024	ND	1.94	96.9	2.00	1.98		
Toluene*	<0.050	0.050	01/12/2024	ND	2.06	103	2.00	2.36		
Ethylbenzene*	<0.050	0.050	01/12/2024	ND	2.08	104	2.00	2.74		
Total Xylenes*	<0.150	0.150	01/12/2024	ND	6.28	105	6.00	2.70		
Total BTEX	<0.300	0.300	01/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2024	ND	180	90.1	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	190	95.1	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Page 1 of 3

Client Name: JR Oil
Project Name: MLMUI Satellite No.2
Project Location: (county, state) Lea County, NM
Invoice to: ATTN: JR Oil Rex Tippy
Receiving Laboratory: Eurofins Xenco
Comments:

Site Manager: Brittany Long
Project #: 212C-MD-03133
Sampler Signature: Miguel Flores

ANALYSIS REQUEST
(Circle or Specify Method No.)

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

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
		YEAR: 2024		WATER	SOIL	HCL	HNO ₃	ICE	None		
		DATE	TIME								
1	T-1 (0-1')	1/11/2024		X			X				
2	T-1 (2')	1/11/2024		X			X				
3	T-1 (3')	1/11/2024		X			X				
4	T-1 (4')	1/11/2024		X			X				
5	T-2 (0-1')	1/11/2024		X			X				
6	T-2 (2')	1/11/2024		X			X				
7	T-2 (3')	1/11/2024		X			X				
8	T-2 (4')	1/11/2024		X			X				
9	T-3 (0-1')	1/11/2024		X			X				
10	T-3 (2')	1/11/2024		X			X				
Relinquished by:		1/11/2024		X			X				

Relinquished by: Miguel A Flores Date: 1/11/24 2012
Received by: [Signature] Date: 1-11-24 2013

Relinquished by: [Signature] Date: 1-12-24 845
Received by: [Signature] Date: 1-12-24 0845

LAB USE ONLY

Sample Temperature: 0-7i #140

REMARKS:

☐ Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Chain of Custody Record

Page 2 of 3

Page 32 of 33



Tetra Tech, Inc.

 901W Wall Street, Ste 100
 Midland, Texas 79705
 Tel (432) 682-4559
 Fax (432) 682-3946

Client Name:	JR Oil	Site Manager:	Brittany Long
Project Name:	MLMUI Satellite No.2	brittany.long@tetratech.com	
Project Location: (county, state)	Lea County, NM	Project #:	212C-MD-03133
Invoice to:	ATTN: JR Oil Refinery		
Receiving Laboratory:	Eurofins Xenco	Sampler Signature:	Miguel Flores
Comments:	Brittany Long		

ANALYSIS REQUEST
 (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8201B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO	PAH 8270C	Total Metals Ag As Ba Cd Cr Cu Hg Mn Ni Pb Se Tl V Zn	TCPLP Metals Ag As Ba Cd	TCPLP Volatiles	TCPLP Semi Volatiles	RCL	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/6/608	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride	Sulfate	TDS	General Water Chemistry (s	Anion/Cation Balance	Hold
		YEAR: 2024		WATER	SOIL	HCL	HNO ₃	ICE	None																								
		DATE	TIME																														

11	T-3 (3')	1/11/2024		X			X					X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Relinquished by:	Miguel A Flores	Date:	1/11/24	Time:	2012	Received by:	Brittany Long	Date:	1-11-24	Time:	0845
Relinquished by:	Brittany Long	Date:	1-12-24	Time:		Received by:	Brittany Long	Date:	1-12-24	Time:	0845
Relinquished by:		Date:		Time:		Received by:		Date:		Time:	

LAB USE ONLY

Sample Temperature

0-7:

#140

REMARKS:

☐ Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Analysis Request of Chain of Custody Record

Page 3 of 3

Page 33 of 33



Tetra Tech, Inc.

 901W Wall Street, Ste 100
 Midland, Texas 79705
 Tel (432) 682-4559
 Fax (432) 682-3946

Client Name:	JR Oil	Site Manager:	Brittany Long
Project Name:	MLMUI Satellite No.2	brittany.long@tetratech.com	
Project Location: (county, state)	Lea County, NM	Project #:	212C-MD-03133
Invoice to:	ATTN: JR Oil Rex Tippy <i>Brittany Long</i>		
Receiving Laboratory:	Eurofins Xenco	Sampler Signature:	Miguel Flores
Comments:			

ANALYSIS REQUEST
 (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRG)	PAH 8270C	Total Metals Ag As Ba Cd	TCLP Metals Ag As Ba Cd	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride	Sulfate	TDS	General Water Chemistry	Anion/Cation Balance		Hold		
		YEAR: 2024		WATER	SOIL	HCL	HNO ₃	ICE	None																										
		DATE	TIME																																
21	T-6 (0-1')	1/11/2024		X				X				X	X																						
22	T-6 (2')	1/11/2024		X				X				X	X													X									
23	T-6 (3')	1/11/2024		X				X				X	X													X									
24	T-6 (4')	1/11/2024		X				X				X	X													X									
25	T-7 (0-1')	1/11/2024		X				X				X	X													X									
26	T-7 (2')	1/11/2024		X				X				X	X													X									
27	T-7 (3')	1/11/2024		X				X				X	X													X									
28	T-7 (4')	1/11/2024		X				X				X	X													X									
		1/11/2024		X				X				X	X													X									
																										X									
Surrendered by:		Date:		Time:		Received by:		Date:		Time:																									
Miguel A Flores																																			

Relinquished by:	Miguel A Flores	Date:	1/11/24	Time:	2012	Received by:	Brittany Long	Date:	1/11/24	Time:	2013
Relinquished by:	Jess L. Ender	Date:	1-12-24	Time:	845	Received by:	Shedrick	Date:	1-12-24	Time:	0845
Relinquished by:		Date:		Time:		Received by:		Date:		Time:	

LAB USE ONLY

Sample Temperature

0.7c

#140

REMARKS:

- ☐ Standard TAT
☐ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/29/2024 6:04:25 PM

JOB DESCRIPTION

MLMU Satellite 2
Eddy Co, NM

JOB NUMBER

880-38172-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Generated
1/29/2024 6:04:25 PM

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

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Laboratory Job ID: 880-38172-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Tetra Tech, Inc.
Project: MLMU Satellite 2

Job ID: 880-38172-1

Job ID: 880-38172-1

Eurofins Midland

Job Narrative
880-38172-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/19/2024 12:30 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 5.1°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: Trench-3 (5') (880-38172-1), Trench-3 (6') (880-38172-2), Trench-3 (7') (880-38172-3), Trench-3 (8') (880-38172-4), Trench-3 (9') (880-38172-5), Trench-3 (10') (880-38172-6), Trench-3 (11') (880-38172-7), Trench-3 (12') (880-38172-8), Trench-3 (13') (880-38172-9) and Trench-3 (14') (880-38172-10).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71146 and analytical batch 880-71763 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample duplicate (LCSD) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71146 and analytical batch 880-71763 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: Trench-3 (9') (880-38172-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-71146 and analytical batch 880-71763 recovered outside control limits for the following analytes: Ethylbenzene and m-Xylene & p-Xylene.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-71232 and analytical batch 880-71758 was outside the upper control limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-71232 and analytical batch 880-71758 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71323 and analytical batch 880-71391 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Midland

Case Narrative

Client: Tetra Tech, Inc.
Project: MLMU Satellite 2

Job ID: 880-38172-1

Job ID: 880-38172-1 (Continued)

Eurofins Midland

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Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

Client Sample ID: Trench-3 (5')

Lab Sample ID: 880-38172-1

Date Collected: 01/17/24 15:35

Matrix: Solid

Date Received: 01/19/24 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		01/19/24 16:42	01/28/24 05:28	1
Toluene	<0.00199	U F1 *-	0.00199		mg/Kg		01/19/24 16:42	01/28/24 05:28	1
Ethylbenzene	<0.00199	U F2 F1 *1	0.00199		mg/Kg		01/19/24 16:42	01/28/24 05:28	1
m-Xylene & p-Xylene	<0.00398	U F2 F1 *1	0.00398		mg/Kg		01/19/24 16:42	01/28/24 05:28	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		01/19/24 16:42	01/28/24 05:28	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		01/19/24 16:42	01/28/24 05:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	01/19/24 16:42	01/28/24 05:28	1
1,4-Difluorobenzene (Surr)	83		70 - 130	01/19/24 16:42	01/28/24 05:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/28/24 05:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/29/24 01:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/19/24 15:04	01/29/24 01:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		01/19/24 15:04	01/29/24 01:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/24 15:04	01/29/24 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	01/19/24 15:04	01/29/24 01:10	1
o-Terphenyl	88		70 - 130	01/19/24 15:04	01/29/24 01:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	753		5.03		mg/Kg			01/24/24 16:40	1

Client Sample ID: Trench-3 (6')

Lab Sample ID: 880-38172-2

Date Collected: 01/17/24 15:38

Matrix: Solid

Date Received: 01/19/24 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/24 16:42	01/28/24 05:55	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		01/19/24 16:42	01/28/24 05:55	1
Ethylbenzene	<0.00200	U *1	0.00200		mg/Kg		01/19/24 16:42	01/28/24 05:55	1
m-Xylene & p-Xylene	<0.00400	U *1	0.00400		mg/Kg		01/19/24 16:42	01/28/24 05:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/24 16:42	01/28/24 05:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/19/24 16:42	01/28/24 05:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	01/19/24 16:42	01/28/24 05:55	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/19/24 16:42	01/28/24 05:55	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

Client Sample ID: Trench-3 (6')

Lab Sample ID: 880-38172-2

Date Collected: 01/17/24 15:38

Matrix: Solid

Date Received: 01/19/24 12:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/28/24 05:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/29/24 01:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/19/24 15:04	01/29/24 01:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		01/19/24 15:04	01/29/24 01:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/19/24 15:04	01/29/24 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				01/19/24 15:04	01/29/24 01:30	1
o-Terphenyl	87		70 - 130				01/19/24 15:04	01/29/24 01:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	653		4.98		mg/Kg			01/24/24 16:45	1

Client Sample ID: Trench-3 (7')

Lab Sample ID: 880-38172-3

Date Collected: 01/17/24 15:42

Matrix: Solid

Date Received: 01/19/24 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/19/24 16:42	01/28/24 06:21	1
Toluene	<0.00201	U *	0.00201		mg/Kg		01/19/24 16:42	01/28/24 06:21	1
Ethylbenzene	<0.00201	U *1	0.00201		mg/Kg		01/19/24 16:42	01/28/24 06:21	1
m-Xylene & p-Xylene	<0.00402	U *1	0.00402		mg/Kg		01/19/24 16:42	01/28/24 06:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/19/24 16:42	01/28/24 06:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/19/24 16:42	01/28/24 06:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				01/19/24 16:42	01/28/24 06:21	1
1,4-Difluorobenzene (Surr)	101		70 - 130				01/19/24 16:42	01/28/24 06:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/28/24 06:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			01/29/24 01:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		01/19/24 15:04	01/29/24 01:51	1
Diesel Range Organics (Over C10-C28)	<49.6	U *1	49.6		mg/Kg		01/19/24 15:04	01/29/24 01:51	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

Client Sample ID: Trench-3 (7')

Lab Sample ID: 880-38172-3

Date Collected: 01/17/24 15:42

Matrix: Solid

Date Received: 01/19/24 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/19/24 15:04	01/29/24 01:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				01/19/24 15:04	01/29/24 01:51	1
o-Terphenyl	103		70 - 130				01/19/24 15:04	01/29/24 01:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	607		5.04		mg/Kg			01/24/24 16:51	1

Client Sample ID: Trench-3 (8')

Lab Sample ID: 880-38172-4

Date Collected: 01/17/24 15:45

Matrix: Solid

Date Received: 01/19/24 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/19/24 16:42	01/28/24 06:48	1
Toluene	<0.00199	U *	0.00199		mg/Kg		01/19/24 16:42	01/28/24 06:48	1
Ethylbenzene	<0.00199	U *1	0.00199		mg/Kg		01/19/24 16:42	01/28/24 06:48	1
m-Xylene & p-Xylene	<0.00398	U *1	0.00398		mg/Kg		01/19/24 16:42	01/28/24 06:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/19/24 16:42	01/28/24 06:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/24 16:42	01/28/24 06:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				01/19/24 16:42	01/28/24 06:48	1
1,4-Difluorobenzene (Surr)	110		70 - 130				01/19/24 16:42	01/28/24 06:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/28/24 06:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			01/29/24 02:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		01/19/24 15:04	01/29/24 02:12	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1		mg/Kg		01/19/24 15:04	01/29/24 02:12	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/19/24 15:04	01/29/24 02:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				01/19/24 15:04	01/29/24 02:12	1
o-Terphenyl	106		70 - 130				01/19/24 15:04	01/29/24 02:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	767		5.02		mg/Kg			01/24/24 16:56	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

Client Sample ID: Trench-3 (9')

Lab Sample ID: 880-38172-5

Date Collected: 01/17/24 15:48

Matrix: Solid

Date Received: 01/19/24 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/19/24 16:42	01/28/24 07:15	1
Toluene	<0.00198	U *	0.00198		mg/Kg		01/19/24 16:42	01/28/24 07:15	1
Ethylbenzene	<0.00198	U *1	0.00198		mg/Kg		01/19/24 16:42	01/28/24 07:15	1
m-Xylene & p-Xylene	<0.00396	U *1	0.00396		mg/Kg		01/19/24 16:42	01/28/24 07:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/19/24 16:42	01/28/24 07:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/19/24 16:42	01/28/24 07:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	01/19/24 16:42	01/28/24 07:15	1
1,4-Difluorobenzene (Surr)	138	S1+	70 - 130	01/19/24 16:42	01/28/24 07:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/28/24 07:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			01/29/24 02:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/19/24 15:04	01/29/24 02:32	1
Diesel Range Organics (Over C10-C28)	<50.4	U *1	50.4		mg/Kg		01/19/24 15:04	01/29/24 02:32	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/19/24 15:04	01/29/24 02:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	01/19/24 15:04	01/29/24 02:32	1
o-Terphenyl	102		70 - 130	01/19/24 15:04	01/29/24 02:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	495		4.98		mg/Kg			01/24/24 17:01	1

Client Sample ID: Trench-3 (10')

Lab Sample ID: 880-38172-6

Date Collected: 01/17/24 15:52

Matrix: Solid

Date Received: 01/19/24 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/24 16:42	01/28/24 07:43	1
Toluene	<0.00200	U *	0.00200		mg/Kg		01/19/24 16:42	01/28/24 07:43	1
Ethylbenzene	<0.00200	U *1	0.00200		mg/Kg		01/19/24 16:42	01/28/24 07:43	1
m-Xylene & p-Xylene	<0.00399	U *1	0.00399		mg/Kg		01/19/24 16:42	01/28/24 07:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/24 16:42	01/28/24 07:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/24 16:42	01/28/24 07:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	01/19/24 16:42	01/28/24 07:43	1
1,4-Difluorobenzene (Surr)	112		70 - 130	01/19/24 16:42	01/28/24 07:43	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

Client Sample ID: Trench-3 (10')

Lab Sample ID: 880-38172-6

Date Collected: 01/17/24 15:52

Matrix: Solid

Date Received: 01/19/24 12:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/28/24 07:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/29/24 02:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		01/19/24 15:04	01/29/24 02:53	1
Diesel Range Organics (Over C10-C28)	<50.5	U *1	50.5		mg/Kg		01/19/24 15:04	01/29/24 02:53	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/19/24 15:04	01/29/24 02:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				01/19/24 15:04	01/29/24 02:53	1
o-Terphenyl	95		70 - 130				01/19/24 15:04	01/29/24 02:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	403		4.96		mg/Kg			01/24/24 17:06	1

Client Sample ID: Trench-3 (11')

Lab Sample ID: 880-38172-7

Date Collected: 01/17/24 15:56

Matrix: Solid

Date Received: 01/19/24 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/24 16:42	01/28/24 08:10	1
Toluene	<0.00200	U *	0.00200		mg/Kg		01/19/24 16:42	01/28/24 08:10	1
Ethylbenzene	<0.00200	U *1	0.00200		mg/Kg		01/19/24 16:42	01/28/24 08:10	1
m-Xylene & p-Xylene	<0.00401	U *1	0.00401		mg/Kg		01/19/24 16:42	01/28/24 08:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/24 16:42	01/28/24 08:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/19/24 16:42	01/28/24 08:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				01/19/24 16:42	01/28/24 08:10	1
1,4-Difluorobenzene (Surr)	126		70 - 130				01/19/24 16:42	01/28/24 08:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/28/24 08:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/29/24 03:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/19/24 15:04	01/29/24 03:13	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		01/19/24 15:04	01/29/24 03:13	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

Client Sample ID: Trench-3 (11')

Lab Sample ID: 880-38172-7

Date Collected: 01/17/24 15:56

Matrix: Solid

Date Received: 01/19/24 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/19/24 15:04	01/29/24 03:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				01/19/24 15:04	01/29/24 03:13	1
o-Terphenyl	86		70 - 130				01/19/24 15:04	01/29/24 03:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	456		4.95		mg/Kg			01/24/24 17:21	1

Client Sample ID: Trench-3 (12')

Lab Sample ID: 880-38172-8

Date Collected: 01/17/24 15:59

Matrix: Solid

Date Received: 01/19/24 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/19/24 16:42	01/28/24 08:38	1
Toluene	<0.00202	U *	0.00202		mg/Kg		01/19/24 16:42	01/28/24 08:38	1
Ethylbenzene	<0.00202	U *1	0.00202		mg/Kg		01/19/24 16:42	01/28/24 08:38	1
m-Xylene & p-Xylene	<0.00403	U *1	0.00403		mg/Kg		01/19/24 16:42	01/28/24 08:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/19/24 16:42	01/28/24 08:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/19/24 16:42	01/28/24 08:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				01/19/24 16:42	01/28/24 08:38	1
1,4-Difluorobenzene (Surr)	119		70 - 130				01/19/24 16:42	01/28/24 08:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/28/24 08:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/29/24 03:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/19/24 15:04	01/29/24 03:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		01/19/24 15:04	01/29/24 03:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/24 15:04	01/29/24 03:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				01/19/24 15:04	01/29/24 03:33	1
o-Terphenyl	100		70 - 130				01/19/24 15:04	01/29/24 03:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	436		5.02		mg/Kg			01/24/24 17:26	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

Client Sample ID: Trench-3 (13')

Lab Sample ID: 880-38172-9

Date Collected: 01/17/24 16:02

Matrix: Solid

Date Received: 01/19/24 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/19/24 16:42	01/28/24 09:06	1
Toluene	<0.00198	U *	0.00198		mg/Kg		01/19/24 16:42	01/28/24 09:06	1
Ethylbenzene	<0.00198	U *1	0.00198		mg/Kg		01/19/24 16:42	01/28/24 09:06	1
m-Xylene & p-Xylene	<0.00397	U *1	0.00397		mg/Kg		01/19/24 16:42	01/28/24 09:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/19/24 16:42	01/28/24 09:06	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/19/24 16:42	01/28/24 09:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				01/19/24 16:42	01/28/24 09:06	1
1,4-Difluorobenzene (Surr)	101		70 - 130				01/19/24 16:42	01/28/24 09:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/28/24 09:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/29/24 03:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/19/24 15:04	01/29/24 03:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		01/19/24 15:04	01/29/24 03:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/19/24 15:04	01/29/24 03:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				01/19/24 15:04	01/29/24 03:53	1
o-Terphenyl	103		70 - 130				01/19/24 15:04	01/29/24 03:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	406		5.01		mg/Kg			01/24/24 17:42	1

Client Sample ID: Trench-3 (14')

Lab Sample ID: 880-38172-10

Date Collected: 01/17/24 16:05

Matrix: Solid

Date Received: 01/19/24 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/24 16:42	01/28/24 09:33	1
Toluene	<0.00200	U *	0.00200		mg/Kg		01/19/24 16:42	01/28/24 09:33	1
Ethylbenzene	<0.00200	U *1	0.00200		mg/Kg		01/19/24 16:42	01/28/24 09:33	1
m-Xylene & p-Xylene	<0.00401	U *1	0.00401		mg/Kg		01/19/24 16:42	01/28/24 09:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/24 16:42	01/28/24 09:33	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/19/24 16:42	01/28/24 09:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				01/19/24 16:42	01/28/24 09:33	1
1,4-Difluorobenzene (Surr)	105		70 - 130				01/19/24 16:42	01/28/24 09:33	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

Client Sample ID: Trench-3 (14')

Lab Sample ID: 880-38172-10

Date Collected: 01/17/24 16:05

Matrix: Solid

Date Received: 01/19/24 12:30

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/28/24 09:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			01/29/24 04:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		01/19/24 15:04	01/29/24 04:13	1
Diesel Range Organics (Over C10-C28)	<50.2	U *1	50.2		mg/Kg		01/19/24 15:04	01/29/24 04:13	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/19/24 15:04	01/29/24 04:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	01/19/24 15:04	01/29/24 04:13	1
o-Terphenyl	98		70 - 130	01/19/24 15:04	01/29/24 04:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	299		5.00		mg/Kg			01/24/24 17:47	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-38172-1	Trench-3 (5')	90	83				
880-38172-1 MS	Trench-3 (5')	118	122				
880-38172-1 MSD	Trench-3 (5')	105	112				
880-38172-2	Trench-3 (6')	106	90				
880-38172-3	Trench-3 (7')	102	101				
880-38172-4	Trench-3 (8')	112	110				
880-38172-5	Trench-3 (9')	106	138 S1+				
880-38172-6	Trench-3 (10')	94	112				
880-38172-7	Trench-3 (11')	103	126				
880-38172-8	Trench-3 (12')	104	119				
880-38172-9	Trench-3 (13')	99	101				
880-38172-10	Trench-3 (14')	108	105				
LCS 880-71146/1-A	Lab Control Sample	78	73				
LCSD 880-71146/2-A	Lab Control Sample Dup	100	106				
MB 880-71146/5-A	Method Blank	57 S1-	105				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-38171-A-1-B MS	Matrix Spike	93	86				
880-38171-A-1-C MSD	Matrix Spike Duplicate	93	86				
880-38172-1	Trench-3 (5')	83	88				
880-38172-2	Trench-3 (6')	82	87				
880-38172-3	Trench-3 (7')	95	103				
880-38172-4	Trench-3 (8')	97	106				
880-38172-5	Trench-3 (9')	94	102				
880-38172-6	Trench-3 (10')	89	95				
880-38172-7	Trench-3 (11')	81	86				
880-38172-8	Trench-3 (12')	92	100				
880-38172-9	Trench-3 (13')	95	103				
880-38172-10	Trench-3 (14')	88	98				
LCS 880-71232/2-A	Lab Control Sample	91	102				
LCSD 880-71232/3-A	Lab Control Sample Dup	70	75				
MB 880-71232/1-A	Method Blank	124	136 S1+				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71146/5-A

Matrix: Solid

Analysis Batch: 71763

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/24 16:42	01/28/24 05:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/24 16:42	01/28/24 05:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/24 16:42	01/28/24 05:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/19/24 16:42	01/28/24 05:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/24 16:42	01/28/24 05:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/19/24 16:42	01/28/24 05:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57	S1-	70 - 130	01/19/24 16:42	01/28/24 05:01	1
1,4-Difluorobenzene (Surr)	105		70 - 130	01/19/24 16:42	01/28/24 05:01	1

Lab Sample ID: LCS 880-71146/1-A

Matrix: Solid

Analysis Batch: 71763

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07374		mg/Kg		74	70 - 130
Toluene	0.100	0.08096		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.07431		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	0.200	0.1598		mg/Kg		80	70 - 130
o-Xylene	0.100	0.08469		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	78		70 - 130
1,4-Difluorobenzene (Surr)	73		70 - 130

Lab Sample ID: LCSD 880-71146/2-A

Matrix: Solid

Analysis Batch: 71763

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 71146

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1035		mg/Kg		104	70 - 130	34	35
Toluene	0.100	0.09149		mg/Kg		91	70 - 130	12	35
Ethylbenzene	0.100	0.1109	*1	mg/Kg		111	70 - 130	40	35
m-Xylene & p-Xylene	0.200	0.2327	*1	mg/Kg		116	70 - 130	37	35
o-Xylene	0.100	0.1116		mg/Kg		112	70 - 130	27	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-38172-1 MS

Matrix: Solid

Analysis Batch: 71763

Client Sample ID: Trench-3 (5')

Prep Type: Total/NA

Prep Batch: 71146

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.0996	0.05941	F1	mg/Kg		59	70 - 130
Toluene	<0.00199	U F1 *-	0.0996	0.04931	F1	mg/Kg		50	70 - 130

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-38172-1 MS

Matrix: Solid

Analysis Batch: 71763

Client Sample ID: Trench-3 (5')

Prep Type: Total/NA

Prep Batch: 71146

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F2 F1 *1	0.0996	0.06533	F1	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1 *1	0.199	0.02959	F1	mg/Kg		15	70 - 130
o-Xylene	<0.00199	U F1	0.0996	0.07680		mg/Kg		76	70 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	118		70 - 130						
1,4-Difluorobenzene (Surr)	122		70 - 130						

Lab Sample ID: 880-38172-1 MSD

Matrix: Solid

Analysis Batch: 71763

Client Sample ID: Trench-3 (5')

Prep Type: Total/NA

Prep Batch: 71146

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.0990	0.04216	F1	mg/Kg		42	70 - 130	34	35
Toluene	<0.00199	U F1 *-	0.0990	0.04734	F1	mg/Kg		48	70 - 130	4	35
Ethylbenzene	<0.00199	U F2 F1 *1	0.0990	0.03678	F2 F1	mg/Kg		37	70 - 130	56	35
m-Xylene & p-Xylene	<0.00398	U F2 F1 *1	0.198	0.06128	F2 F1	mg/Kg		31	70 - 130	70	35
o-Xylene	<0.00199	U F1	0.0990	0.06304	F1	mg/Kg		63	70 - 130	20	35
Surrogate	%Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	105		70 - 130								
1,4-Difluorobenzene (Surr)	112		70 - 130								

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

Lab Sample ID: MB 880-71232/1-A

Matrix: Solid

Analysis Batch: 71758

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71232

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/19/24 15:04	01/28/24 19:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/24 15:04	01/28/24 19:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/24 15:04	01/28/24 19:33	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				01/19/24 15:04	01/28/24 19:33	1
o-Terphenyl	136	S1+	70 - 130				01/19/24 15:04	01/28/24 19:33	1

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-71232/2-A

Matrix: Solid

Analysis Batch: 71758

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71232

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	890.7		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	999.7		mg/Kg		100	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	91		70 - 130				
o-Terphenyl	102		70 - 130				

Lab Sample ID: LCSD 880-71232/3-A

Matrix: Solid

Analysis Batch: 71758

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 71232

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	744.0		mg/Kg		74	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	1000	797.5	*1	mg/Kg		80	70 - 130	23	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	70		70 - 130						
o-Terphenyl	75		70 - 130						

Lab Sample ID: 880-38171-A-1-B MS

Matrix: Solid

Analysis Batch: 71758

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 71232

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	807.8		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U *1	1010	843.2		mg/Kg		84	70 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
1-Chlorooctane	93		70 - 130						
o-Terphenyl	86		70 - 130						

Lab Sample ID: 880-38171-A-1-C MSD

Matrix: Solid

Analysis Batch: 71758

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 71232

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	939.6		mg/Kg		90	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<49.8	U *1	1010	858.2		mg/Kg		85	70 - 130	2	20
Surrogate	%Recovery	MSD Qualifier	Limits								
1-Chlorooctane	93		70 - 130								

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-38171-A-1-C MSD

Matrix: Solid

Analysis Batch: 71758

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 71232

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	86		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71323/1-A

Matrix: Solid

Analysis Batch: 71391

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00		mg/Kg			01/24/24 15:18	1	

Lab Sample ID: LCS 880-71323/2-A

Matrix: Solid

Analysis Batch: 71391

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte		Spike	LCS	LCS				%Rec		
		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride		250	244.0		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-71323/3-A

Matrix: Solid

Analysis Batch: 71391

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte		Spike	LCSD	LCSD				%Rec		RPD
		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		250	242.5		mg/Kg		97	90 - 110	1	20

Lab Sample ID: 880-38172-6 MS

Matrix: Solid

Analysis Batch: 71391

Client Sample ID: Trench-3 (10')

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS			%Rec		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	403		248	646.6		mg/Kg		98	90 - 110	

Lab Sample ID: 880-38172-6 MSD

Matrix: Solid

Analysis Batch: 71391

Client Sample ID: Trench-3 (10')

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MSD	MSD			%Rec		RPD
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	Limit
Chloride	403		248	641.9		mg/Kg		96	90 - 110	1 20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 71146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38172-1	Trench-3 (5')	Total/NA	Solid	5035	
880-38172-2	Trench-3 (6')	Total/NA	Solid	5035	
880-38172-3	Trench-3 (7')	Total/NA	Solid	5035	
880-38172-4	Trench-3 (8')	Total/NA	Solid	5035	
880-38172-5	Trench-3 (9')	Total/NA	Solid	5035	
880-38172-6	Trench-3 (10')	Total/NA	Solid	5035	
880-38172-7	Trench-3 (11')	Total/NA	Solid	5035	
880-38172-8	Trench-3 (12')	Total/NA	Solid	5035	
880-38172-9	Trench-3 (13')	Total/NA	Solid	5035	
880-38172-10	Trench-3 (14')	Total/NA	Solid	5035	
MB 880-71146/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71146/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71146/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38172-1 MS	Trench-3 (5')	Total/NA	Solid	5035	
880-38172-1 MSD	Trench-3 (5')	Total/NA	Solid	5035	

Analysis Batch: 71763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38172-1	Trench-3 (5')	Total/NA	Solid	8021B	71146
880-38172-2	Trench-3 (6')	Total/NA	Solid	8021B	71146
880-38172-3	Trench-3 (7')	Total/NA	Solid	8021B	71146
880-38172-4	Trench-3 (8')	Total/NA	Solid	8021B	71146
880-38172-5	Trench-3 (9')	Total/NA	Solid	8021B	71146
880-38172-6	Trench-3 (10')	Total/NA	Solid	8021B	71146
880-38172-7	Trench-3 (11')	Total/NA	Solid	8021B	71146
880-38172-8	Trench-3 (12')	Total/NA	Solid	8021B	71146
880-38172-9	Trench-3 (13')	Total/NA	Solid	8021B	71146
880-38172-10	Trench-3 (14')	Total/NA	Solid	8021B	71146
MB 880-71146/5-A	Method Blank	Total/NA	Solid	8021B	71146
LCS 880-71146/1-A	Lab Control Sample	Total/NA	Solid	8021B	71146
LCSD 880-71146/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71146
880-38172-1 MS	Trench-3 (5')	Total/NA	Solid	8021B	71146
880-38172-1 MSD	Trench-3 (5')	Total/NA	Solid	8021B	71146

Analysis Batch: 71823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38172-1	Trench-3 (5')	Total/NA	Solid	Total BTEX	
880-38172-2	Trench-3 (6')	Total/NA	Solid	Total BTEX	
880-38172-3	Trench-3 (7')	Total/NA	Solid	Total BTEX	
880-38172-4	Trench-3 (8')	Total/NA	Solid	Total BTEX	
880-38172-5	Trench-3 (9')	Total/NA	Solid	Total BTEX	
880-38172-6	Trench-3 (10')	Total/NA	Solid	Total BTEX	
880-38172-7	Trench-3 (11')	Total/NA	Solid	Total BTEX	
880-38172-8	Trench-3 (12')	Total/NA	Solid	Total BTEX	
880-38172-9	Trench-3 (13')	Total/NA	Solid	Total BTEX	
880-38172-10	Trench-3 (14')	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

GC Semi VOA

Prep Batch: 71232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38172-1	Trench-3 (5')	Total/NA	Solid	8015NM Prep	
880-38172-2	Trench-3 (6')	Total/NA	Solid	8015NM Prep	
880-38172-3	Trench-3 (7')	Total/NA	Solid	8015NM Prep	
880-38172-4	Trench-3 (8')	Total/NA	Solid	8015NM Prep	
880-38172-5	Trench-3 (9')	Total/NA	Solid	8015NM Prep	
880-38172-6	Trench-3 (10')	Total/NA	Solid	8015NM Prep	
880-38172-7	Trench-3 (11')	Total/NA	Solid	8015NM Prep	
880-38172-8	Trench-3 (12')	Total/NA	Solid	8015NM Prep	
880-38172-9	Trench-3 (13')	Total/NA	Solid	8015NM Prep	
880-38172-10	Trench-3 (14')	Total/NA	Solid	8015NM Prep	
MB 880-71232/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71232/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71232/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38171-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-38171-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38172-1	Trench-3 (5')	Total/NA	Solid	8015B NM	71232
880-38172-2	Trench-3 (6')	Total/NA	Solid	8015B NM	71232
880-38172-3	Trench-3 (7')	Total/NA	Solid	8015B NM	71232
880-38172-4	Trench-3 (8')	Total/NA	Solid	8015B NM	71232
880-38172-5	Trench-3 (9')	Total/NA	Solid	8015B NM	71232
880-38172-6	Trench-3 (10')	Total/NA	Solid	8015B NM	71232
880-38172-7	Trench-3 (11')	Total/NA	Solid	8015B NM	71232
880-38172-8	Trench-3 (12')	Total/NA	Solid	8015B NM	71232
880-38172-9	Trench-3 (13')	Total/NA	Solid	8015B NM	71232
880-38172-10	Trench-3 (14')	Total/NA	Solid	8015B NM	71232
MB 880-71232/1-A	Method Blank	Total/NA	Solid	8015B NM	71232
LCS 880-71232/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71232
LCSD 880-71232/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71232
880-38171-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	71232
880-38171-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71232

Analysis Batch: 71897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38172-1	Trench-3 (5')	Total/NA	Solid	8015 NM	
880-38172-2	Trench-3 (6')	Total/NA	Solid	8015 NM	
880-38172-3	Trench-3 (7')	Total/NA	Solid	8015 NM	
880-38172-4	Trench-3 (8')	Total/NA	Solid	8015 NM	
880-38172-5	Trench-3 (9')	Total/NA	Solid	8015 NM	
880-38172-6	Trench-3 (10')	Total/NA	Solid	8015 NM	
880-38172-7	Trench-3 (11')	Total/NA	Solid	8015 NM	
880-38172-8	Trench-3 (12')	Total/NA	Solid	8015 NM	
880-38172-9	Trench-3 (13')	Total/NA	Solid	8015 NM	
880-38172-10	Trench-3 (14')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

HPLC/IC

Leach Batch: 71323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38172-1	Trench-3 (5')	Soluble	Solid	DI Leach	
880-38172-2	Trench-3 (6')	Soluble	Solid	DI Leach	
880-38172-3	Trench-3 (7')	Soluble	Solid	DI Leach	
880-38172-4	Trench-3 (8')	Soluble	Solid	DI Leach	
880-38172-5	Trench-3 (9')	Soluble	Solid	DI Leach	
880-38172-6	Trench-3 (10')	Soluble	Solid	DI Leach	
880-38172-7	Trench-3 (11')	Soluble	Solid	DI Leach	
880-38172-8	Trench-3 (12')	Soluble	Solid	DI Leach	
880-38172-9	Trench-3 (13')	Soluble	Solid	DI Leach	
880-38172-10	Trench-3 (14')	Soluble	Solid	DI Leach	
MB 880-71323/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71323/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71323/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38172-6 MS	Trench-3 (10')	Soluble	Solid	DI Leach	
880-38172-6 MSD	Trench-3 (10')	Soluble	Solid	DI Leach	

Analysis Batch: 71391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38172-1	Trench-3 (5')	Soluble	Solid	300.0	71323
880-38172-2	Trench-3 (6')	Soluble	Solid	300.0	71323
880-38172-3	Trench-3 (7')	Soluble	Solid	300.0	71323
880-38172-4	Trench-3 (8')	Soluble	Solid	300.0	71323
880-38172-5	Trench-3 (9')	Soluble	Solid	300.0	71323
880-38172-6	Trench-3 (10')	Soluble	Solid	300.0	71323
880-38172-7	Trench-3 (11')	Soluble	Solid	300.0	71323
880-38172-8	Trench-3 (12')	Soluble	Solid	300.0	71323
880-38172-9	Trench-3 (13')	Soluble	Solid	300.0	71323
880-38172-10	Trench-3 (14')	Soluble	Solid	300.0	71323
MB 880-71323/1-A	Method Blank	Soluble	Solid	300.0	71323
LCS 880-71323/2-A	Lab Control Sample	Soluble	Solid	300.0	71323
LCSD 880-71323/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71323
880-38172-6 MS	Trench-3 (10')	Soluble	Solid	300.0	71323
880-38172-6 MSD	Trench-3 (10')	Soluble	Solid	300.0	71323

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

Client Sample ID: Trench-3 (5')
Date Collected: 01/17/24 15:35
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38172-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	71146	01/19/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71763	01/28/24 05:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71823	01/28/24 05:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			71897	01/29/24 01:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/29/24 01:10	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	71323	01/22/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71391	01/24/24 16:40	SMC	EET MID

Client Sample ID: Trench-3 (6')
Date Collected: 01/17/24 15:38
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38172-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	71146	01/19/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71763	01/28/24 05:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71823	01/28/24 05:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			71897	01/29/24 01:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/29/24 01:30	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	71323	01/22/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71391	01/24/24 16:45	SMC	EET MID

Client Sample ID: Trench-3 (7')
Date Collected: 01/17/24 15:42
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38172-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	71146	01/19/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71763	01/28/24 06:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71823	01/28/24 06:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			71897	01/29/24 01:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/29/24 01:51	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	71323	01/22/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71391	01/24/24 16:51	SMC	EET MID

Client Sample ID: Trench-3 (8')
Date Collected: 01/17/24 15:45
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38172-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	71146	01/19/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71763	01/28/24 06:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71823	01/28/24 06:48	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

Client Sample ID: Trench-3 (8')
Date Collected: 01/17/24 15:45
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38172-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			71897	01/29/24 02:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/29/24 02:12	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	71323	01/22/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71391	01/24/24 16:56	SMC	EET MID

Client Sample ID: Trench-3 (9')
Date Collected: 01/17/24 15:48
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38172-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	71146	01/19/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71763	01/28/24 07:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71823	01/28/24 07:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			71897	01/29/24 02:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/29/24 02:32	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	71323	01/22/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71391	01/24/24 17:01	SMC	EET MID

Client Sample ID: Trench-3 (10')
Date Collected: 01/17/24 15:52
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38172-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71146	01/19/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71763	01/28/24 07:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71823	01/28/24 07:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			71897	01/29/24 02:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/29/24 02:53	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	71323	01/22/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71391	01/24/24 17:06	SMC	EET MID

Client Sample ID: Trench-3 (11')
Date Collected: 01/17/24 15:56
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38172-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	71146	01/19/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71763	01/28/24 08:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71823	01/28/24 08:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			71897	01/29/24 03:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/29/24 03:13	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

Client Sample ID: Trench-3 (11')
Date Collected: 01/17/24 15:56
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38172-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	71323	01/22/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71391	01/24/24 17:21	SMC	EET MID

Client Sample ID: Trench-3 (12')
Date Collected: 01/17/24 15:59
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38172-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	71146	01/19/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71763	01/28/24 08:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71823	01/28/24 08:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			71897	01/29/24 03:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/29/24 03:33	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	71323	01/22/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71391	01/24/24 17:26	SMC	EET MID

Client Sample ID: Trench-3 (13')
Date Collected: 01/17/24 16:02
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38172-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	71146	01/19/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71763	01/28/24 09:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71823	01/28/24 09:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			71897	01/29/24 03:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/29/24 03:53	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	71323	01/22/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71391	01/24/24 17:42	SMC	EET MID

Client Sample ID: Trench-3 (14')
Date Collected: 01/17/24 16:05
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38172-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	71146	01/19/24 16:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71763	01/28/24 09:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71823	01/28/24 09:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			71897	01/29/24 04:13	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/29/24 04:13	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	71323	01/22/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71391	01/24/24 17:47	SMC	EET MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: MLMU Satellite 2

Job ID: 880-38172-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38172-1	Trench-3 (5')	Solid	01/17/24 15:35	01/19/24 12:30
880-38172-2	Trench-3 (6')	Solid	01/17/24 15:38	01/19/24 12:30
880-38172-3	Trench-3 (7')	Solid	01/17/24 15:42	01/19/24 12:30
880-38172-4	Trench-3 (8')	Solid	01/17/24 15:45	01/19/24 12:30
880-38172-5	Trench-3 (9')	Solid	01/17/24 15:48	01/19/24 12:30
880-38172-6	Trench-3 (10')	Solid	01/17/24 15:52	01/19/24 12:30
880-38172-7	Trench-3 (11')	Solid	01/17/24 15:56	01/19/24 12:30
880-38172-8	Trench-3 (12')	Solid	01/17/24 15:59	01/19/24 12:30
880-38172-9	Trench-3 (13')	Solid	01/17/24 16:02	01/19/24 12:30
880-38172-10	Trench-3 (14')	Solid	01/17/24 16:05	01/19/24 12:30

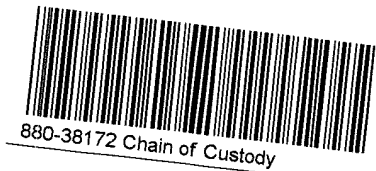
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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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



1/29/2024

Client Name: JR Oil

Site Manager: Brittany Long

Project Name: MLMU Satellite 2

Contact Info: brittany.long@tetratech.com

Project Location: (county, state) Eddy Co, NM

Project #: 212C-MD-03133 Task 100

Invoice to: JR Oil ATTN Rex Tippy

Receiving Laboratory: Eurofins

Sampler Signature: Matthew Castrejon

Comments:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX			PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTX 8021B	TPH TX 1005 (Ext to C35)	TPH 8015M (GRO - DI	PAH 8270C	Total Metals Ag As Ba C	TCLP Metals Ag As Ba	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol 8260B / 62	GC/MS Semi Vol 8270C	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300 0	Chloride Sulfate	TDS	General Water Chemist	Anion/Cation Balance	TPH 8015R	HOLD	
		YEAR 2024		WATER	SOIL		HCL	HNO ₃	ICE	NONE																								
		DATE	TIME																															
	Trench-3 (5')	01/17/24	1535		X				X			1		X	X												X							
	Trench-3 (6')	01/17/24	1538		X				X			1		X	X												X							
	Trench-3 (7')	01/17/24	1542		X				X			1		X	X												X							
	Trench-3 (8')	01/17/24	1545		X				X			1		X	X												X							
	Trench-3 (9')	01/17/24	1548		X				X			1		X	X												X							
	Trench-3 (10')	01/17/24	1552		X				X			1		X	X												X							
	Trench-3 (11')	01/17/24	1556		X				X			1		X	X												X							
	Trench-3 (12')	01/17/24	1559		X				X			1		X	X												X							
	Trench-3 (13')	01/17/24	1602		X				X			1		X	X												X							
	Trench-3 (14')	01/17/24	1605		X				X			1		X	X												X							

Relinquished by: [Signature] 1-19-24 12:27

Received by: [Signature] 1/19/24 1230

Relinquished by: [Signature]

Received by: [Signature]

Relinquished by: [Signature]

Received by: [Signature]

LAB USE ONLY

Sample Temperature 49/5.1

REMARKS:

☒ Standard

☐ RUSH Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-38172-1

SDG Number: Eddy Co, NM

Login Number: 38172

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/27/2024 11:19:09 AM

JOB DESCRIPTION

MLMUI Satellite No2
Lea County NM

JOB NUMBER

890-6200-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Generated
2/27/2024 11:19:09 AM

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

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Laboratory Job ID: 890-6200-1
SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Tetra Tech, Inc.
Project: MLMUI Satellite No2

Job ID: 890-6200-1

Job ID: 890-6200-1

Eurofins Carlsbad

Job Narrative
890-6200-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/15/2024 1:42 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 -2.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW - 5 (890-6200-1), SW - 6 (890-6200-2), SW - 8 (890-6200-3), SW - 9 (890-6200-4), SW - 10 (890-6200-5), SW - 11 (890-6200-6), SW - 14 (890-6200-7), SW - 18 (890-6200-8), BH - 3 (2.0') (890-6200-9), BH - 4 (2.0') (890-6200-10), BH - 6 (2.0') (890-6200-11), BH - 8 (3.0') (890-6200-12), BH - 9 (3.0') (890-6200-13), BH - 10 (4.0') (890-6200-14), BH - 22 (4.0') (890-6200-15), BH - 23 (4.0') (890-6200-16), BH - 24 (4.0') (890-6200-17), BH - 27 (4.0') (890-6200-18), BH - 28 (4.0') (890-6200-19) and BH - 29 (4.0') (890-6200-20).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-73794 and analytical batch 880-73978 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-73996/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-73993 recovered under the lower control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH - 10 (4.0') (890-6200-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-73897 and analytical batch 880-73993 was outside the control limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW - 11 (890-6200-6), SW - 14 (890-6200-7), BH - 3 (2.0') (890-6200-9), BH - 4 (2.0') (890-6200-10), BH - 6 (2.0') (890-6200-11) and BH - 23 (4.0') (890-6200-16). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-73546/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-73546 and analytical batch 880-73598 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Eurofins Carlsbad

Case Narrative

Client: Tetra Tech, Inc.
Project: MLMUI Satellite No2

Job ID: 890-6200-1

Job ID: 890-6200-1 (Continued) Eurofins Carlsbad

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

HPLC/IC

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

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Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: SW - 5

Lab Sample ID: 890-6200-1

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/24 14:02	02/24/24 13:56	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		02/21/24 14:02	02/24/24 13:56	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		02/21/24 14:02	02/24/24 13:56	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		02/21/24 14:02	02/24/24 13:56	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		02/21/24 14:02	02/24/24 13:56	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		02/21/24 14:02	02/24/24 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	02/21/24 14:02	02/24/24 13:56	1
1,4-Difluorobenzene (Surr)	110		70 - 130	02/21/24 14:02	02/24/24 13:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/24/24 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	715		50.5		mg/Kg			02/20/24 22:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *- *1	50.5		mg/Kg		02/19/24 15:13	02/20/24 22:47	1
Diesel Range Organics (Over C10-C28)	715	*- *1	50.5		mg/Kg		02/19/24 15:13	02/20/24 22:47	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/19/24 15:13	02/20/24 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	02/19/24 15:13	02/20/24 22:47	1
o-Terphenyl	107		70 - 130	02/19/24 15:13	02/20/24 22:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.9		5.01		mg/Kg			02/19/24 22:52	1

Client Sample ID: SW - 6

Lab Sample ID: 890-6200-2

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/21/24 14:02	02/24/24 14:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/24 14:02	02/24/24 14:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/24 14:02	02/24/24 14:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/24 14:02	02/24/24 14:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/21/24 14:02	02/24/24 14:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/24 14:02	02/24/24 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	02/21/24 14:02	02/24/24 14:17	1
1,4-Difluorobenzene (Surr)	113		70 - 130	02/21/24 14:02	02/24/24 14:17	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: SW - 6

Lab Sample ID: 890-6200-2

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/24/24 14:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/20/24 21:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		02/19/24 15:13	02/20/24 21:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U *- *1	50.0		mg/Kg		02/19/24 15:13	02/20/24 21:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/24 15:13	02/20/24 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				02/19/24 15:13	02/20/24 21:37	1
o-Terphenyl	93		70 - 130				02/19/24 15:13	02/20/24 21:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.0		4.99		mg/Kg			02/19/24 23:06	1

Client Sample ID: SW - 8

Lab Sample ID: 890-6200-3

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/21/24 14:02	02/24/24 14:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/21/24 14:02	02/24/24 14:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/21/24 14:02	02/24/24 14:38	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/21/24 14:02	02/24/24 14:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/21/24 14:02	02/24/24 14:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/21/24 14:02	02/24/24 14:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				02/21/24 14:02	02/24/24 14:38	1
1,4-Difluorobenzene (Surr)	110		70 - 130				02/21/24 14:02	02/24/24 14:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/24/24 14:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			02/20/24 23:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *- *1	50.3		mg/Kg		02/19/24 15:13	02/20/24 23:56	1
Diesel Range Organics (Over C10-C28)	<50.3	U *- *1	50.3		mg/Kg		02/19/24 15:13	02/20/24 23:56	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: SW - 8

Lab Sample ID: 890-6200-3

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		02/19/24 15:13	02/20/24 23:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				02/19/24 15:13	02/20/24 23:56	1
o-Terphenyl	103		70 - 130				02/19/24 15:13	02/20/24 23:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.5		4.98		mg/Kg			02/19/24 23:10	1

Client Sample ID: SW - 9

Lab Sample ID: 890-6200-4

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/24 14:02	02/24/24 14:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/24 14:02	02/24/24 14:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/24 14:02	02/24/24 14:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/24 14:02	02/24/24 14:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/24 14:02	02/24/24 14:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/24 14:02	02/24/24 14:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				02/21/24 14:02	02/24/24 14:59	1
1,4-Difluorobenzene (Surr)	110		70 - 130				02/21/24 14:02	02/24/24 14:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/24/24 14:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	101		50.4		mg/Kg			02/20/24 23:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U *- *1	50.4		mg/Kg		02/19/24 15:13	02/20/24 23:33	1
Diesel Range Organics (Over C10-C28)	101	*- *1	50.4		mg/Kg		02/19/24 15:13	02/20/24 23:33	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/19/24 15:13	02/20/24 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				02/19/24 15:13	02/20/24 23:33	1
o-Terphenyl	101		70 - 130				02/19/24 15:13	02/20/24 23:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.0		4.95		mg/Kg			02/19/24 23:15	1

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: SW - 10

Lab Sample ID: 890-6200-5

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/24 14:02	02/24/24 15:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/24 14:02	02/24/24 15:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/24 14:02	02/24/24 15:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/24 14:02	02/24/24 15:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/24 14:02	02/24/24 15:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/24 14:02	02/24/24 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	02/21/24 14:02	02/24/24 15:20	1
1,4-Difluorobenzene (Surr)	112		70 - 130	02/21/24 14:02	02/24/24 15:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/24/24 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	110		49.7		mg/Kg			02/20/24 23:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *- *1	49.7		mg/Kg		02/19/24 15:13	02/20/24 23:10	1
Diesel Range Organics (Over C10-C28)	110	*- *1	49.7		mg/Kg		02/19/24 15:13	02/20/24 23:10	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/19/24 15:13	02/20/24 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	02/19/24 15:13	02/20/24 23:10	1
o-Terphenyl	110		70 - 130	02/19/24 15:13	02/20/24 23:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	902		4.96		mg/Kg			02/19/24 23:20	1

Client Sample ID: SW - 11

Lab Sample ID: 890-6200-6

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/21/24 14:02	02/24/24 15:41	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/21/24 14:02	02/24/24 15:41	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/21/24 14:02	02/24/24 15:41	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/21/24 14:02	02/24/24 15:41	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/21/24 14:02	02/24/24 15:41	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/21/24 14:02	02/24/24 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	02/21/24 14:02	02/24/24 15:41	1
1,4-Difluorobenzene (Surr)	111		70 - 130	02/21/24 14:02	02/24/24 15:41	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: SW - 11

Lab Sample ID: 890-6200-6

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/24/24 15:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/21/24 00:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		02/19/24 15:13	02/21/24 00:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U *- *1	49.9		mg/Kg		02/19/24 15:13	02/21/24 00:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/19/24 15:13	02/21/24 00:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				02/19/24 15:13	02/21/24 00:19	1
o-Terphenyl	123		70 - 130				02/19/24 15:13	02/21/24 00:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.8		5.04		mg/Kg			02/19/24 23:34	1

Client Sample ID: SW - 14

Lab Sample ID: 890-6200-7

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/21/24 14:02	02/24/24 16:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/24 14:02	02/24/24 16:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/24 14:02	02/24/24 16:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/24 14:02	02/24/24 16:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/21/24 14:02	02/24/24 16:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/24 14:02	02/24/24 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				02/21/24 14:02	02/24/24 16:02	1
1,4-Difluorobenzene (Surr)	106		70 - 130				02/21/24 14:02	02/24/24 16:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/24/24 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/21/24 00:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U *- *1	50.2		mg/Kg		02/19/24 15:13	02/21/24 00:42	1
Diesel Range Organics (Over C10-C28)	<50.2	U *- *1	50.2		mg/Kg		02/19/24 15:13	02/21/24 00:42	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: SW - 14

Lab Sample ID: 890-6200-7

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/19/24 15:13	02/21/24 00:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130				02/19/24 15:13	02/21/24 00:42	1
o-Terphenyl	139	S1+	70 - 130				02/19/24 15:13	02/21/24 00:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.7		5.02		mg/Kg			02/19/24 23:38	1

Client Sample ID: SW - 18

Lab Sample ID: 890-6200-8

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/21/24 14:02	02/24/24 16:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/21/24 14:02	02/24/24 16:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/21/24 14:02	02/24/24 16:23	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/21/24 14:02	02/24/24 16:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/21/24 14:02	02/24/24 16:23	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/21/24 14:02	02/24/24 16:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				02/21/24 14:02	02/24/24 16:23	1
1,4-Difluorobenzene (Surr)	110		70 - 130				02/21/24 14:02	02/24/24 16:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/24/24 16:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			02/21/24 01:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *- *1	50.3		mg/Kg		02/19/24 15:13	02/21/24 01:05	1
Diesel Range Organics (Over C10-C28)	<50.3	U *- *1	50.3		mg/Kg		02/19/24 15:13	02/21/24 01:05	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		02/19/24 15:13	02/21/24 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				02/19/24 15:13	02/21/24 01:05	1
o-Terphenyl	116		70 - 130				02/19/24 15:13	02/21/24 01:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.6		5.05		mg/Kg			02/19/24 23:43	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: BH - 3 (2.0')

Lab Sample ID: 890-6200-9

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/24 14:02	02/24/24 16:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/24 14:02	02/24/24 16:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/24 14:02	02/24/24 16:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/24 14:02	02/24/24 16:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/24 14:02	02/24/24 16:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/24 14:02	02/24/24 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	02/21/24 14:02	02/24/24 16:44	1
1,4-Difluorobenzene (Surr)	86		70 - 130	02/21/24 14:02	02/24/24 16:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/24/24 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/21/24 01:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U *- *1	50.2		mg/Kg		02/19/24 15:13	02/21/24 01:29	1
Diesel Range Organics (Over C10-C28)	<50.2	U *- *1	50.2		mg/Kg		02/19/24 15:13	02/21/24 01:29	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/19/24 15:13	02/21/24 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	173	S1+	70 - 130	02/19/24 15:13	02/21/24 01:29	1
o-Terphenyl	146	S1+	70 - 130	02/19/24 15:13	02/21/24 01:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.7		5.00		mg/Kg			02/19/24 23:48	1

Client Sample ID: BH - 4 (2.0')

Lab Sample ID: 890-6200-10

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/21/24 14:02	02/24/24 17:05	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/21/24 14:02	02/24/24 17:05	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/21/24 14:02	02/24/24 17:05	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/21/24 14:02	02/24/24 17:05	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/21/24 14:02	02/24/24 17:05	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/21/24 14:02	02/24/24 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	02/21/24 14:02	02/24/24 17:05	1
1,4-Difluorobenzene (Surr)	106		70 - 130	02/21/24 14:02	02/24/24 17:05	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: BH - 4 (2.0')

Lab Sample ID: 890-6200-10

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/24/24 17:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/21/24 01:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *- *1	50.5		mg/Kg		02/19/24 15:13	02/21/24 01:51	1
Diesel Range Organics (Over C10-C28)	<50.5	U *- *1	50.5		mg/Kg		02/19/24 15:13	02/21/24 01:51	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/19/24 15:13	02/21/24 01:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130				02/19/24 15:13	02/21/24 01:51	1
o-Terphenyl	124		70 - 130				02/19/24 15:13	02/21/24 01:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.4		4.98		mg/Kg			02/19/24 23:52	1

Client Sample ID: BH - 6 (2.0')

Lab Sample ID: 890-6200-11

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/22/24 17:07	02/27/24 05:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/22/24 17:07	02/27/24 05:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/22/24 17:07	02/27/24 05:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/22/24 17:07	02/27/24 05:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/22/24 17:07	02/27/24 05:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/22/24 17:07	02/27/24 05:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				02/22/24 17:07	02/27/24 05:45	1
1,4-Difluorobenzene (Surr)	95		70 - 130				02/22/24 17:07	02/27/24 05:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/27/24 05:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/21/24 06:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		02/19/24 15:13	02/21/24 06:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U *- *1	49.9		mg/Kg		02/19/24 15:13	02/21/24 06:02	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: BH - 6 (2.0')

Lab Sample ID: 890-6200-11

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/19/24 15:13	02/21/24 06:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	178	S1+	70 - 130				02/19/24 15:13	02/21/24 06:02	1
o-Terphenyl	149	S1+	70 - 130				02/19/24 15:13	02/21/24 06:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.0		5.04		mg/Kg			02/19/24 23:57	1

Client Sample ID: BH - 8 (3.0')

Lab Sample ID: 890-6200-12

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/22/24 17:07	02/27/24 06:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/22/24 17:07	02/27/24 06:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/22/24 17:07	02/27/24 06:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/22/24 17:07	02/27/24 06:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/22/24 17:07	02/27/24 06:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/22/24 17:07	02/27/24 06:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				02/22/24 17:07	02/27/24 06:06	1
1,4-Difluorobenzene (Surr)	103		70 - 130				02/22/24 17:07	02/27/24 06:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/27/24 06:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.8		49.7		mg/Kg			02/21/24 04:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *- *1	49.7		mg/Kg		02/19/24 15:13	02/21/24 04:31	1
Diesel Range Organics (Over C10-C28)	60.8	*- *1	49.7		mg/Kg		02/19/24 15:13	02/21/24 04:31	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/19/24 15:13	02/21/24 04:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				02/19/24 15:13	02/21/24 04:31	1
o-Terphenyl	109		70 - 130				02/19/24 15:13	02/21/24 04:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	214		5.03		mg/Kg			02/20/24 00:11	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: BH - 9 (3.0')

Lab Sample ID: 890-6200-13

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:29	02/26/24 19:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:29	02/26/24 19:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:29	02/26/24 19:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/26/24 08:29	02/26/24 19:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:29	02/26/24 19:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/26/24 08:29	02/26/24 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	02/26/24 08:29	02/26/24 19:00	1
1,4-Difluorobenzene (Surr)	105		70 - 130	02/26/24 08:29	02/26/24 19:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/26/24 19:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.7		49.9		mg/Kg			02/21/24 04:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		02/19/24 15:13	02/21/24 04:54	1
Diesel Range Organics (Over C10-C28)	67.7	*- *1	49.9		mg/Kg		02/19/24 15:13	02/21/24 04:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/19/24 15:13	02/21/24 04:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	02/19/24 15:13	02/21/24 04:54	1
o-Terphenyl	112		70 - 130	02/19/24 15:13	02/21/24 04:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		5.02		mg/Kg			02/20/24 00:15	1

Client Sample ID: BH - 10 (4.0')

Lab Sample ID: 890-6200-14

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/26/24 08:29	02/26/24 19:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/26/24 08:29	02/26/24 19:21	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/26/24 08:29	02/26/24 19:21	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/26/24 08:29	02/26/24 19:21	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/26/24 08:29	02/26/24 19:21	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/26/24 08:29	02/26/24 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130	02/26/24 08:29	02/26/24 19:21	1
1,4-Difluorobenzene (Surr)	103		70 - 130	02/26/24 08:29	02/26/24 19:21	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: BH - 10 (4.0')

Lab Sample ID: 890-6200-14

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/26/24 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	98.6		50.1		mg/Kg			02/21/24 05:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *- *1	50.1		mg/Kg		02/19/24 15:13	02/21/24 05:17	1
Diesel Range Organics (Over C10-C28)	98.6	*- *1	50.1		mg/Kg		02/19/24 15:13	02/21/24 05:17	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/19/24 15:13	02/21/24 05:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				02/19/24 15:13	02/21/24 05:17	1
o-Terphenyl	106		70 - 130				02/19/24 15:13	02/21/24 05:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1830		24.9		mg/Kg			02/20/24 00:29	5

Client Sample ID: BH - 22 (4.0')

Lab Sample ID: 890-6200-15

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:29	02/26/24 19:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:29	02/26/24 19:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:29	02/26/24 19:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/26/24 08:29	02/26/24 19:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:29	02/26/24 19:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/26/24 08:29	02/26/24 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				02/26/24 08:29	02/26/24 19:42	1
1,4-Difluorobenzene (Surr)	106		70 - 130				02/26/24 08:29	02/26/24 19:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/26/24 19:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	94.2		50.3		mg/Kg			02/21/24 02:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *- *1	50.3		mg/Kg		02/19/24 15:13	02/21/24 02:37	1
Diesel Range Organics (Over C10-C28)	94.2	*- *1	50.3		mg/Kg		02/19/24 15:13	02/21/24 02:37	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: BH - 22 (4.0')

Lab Sample ID: 890-6200-15

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		02/19/24 15:13	02/21/24 02:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				02/19/24 15:13	02/21/24 02:37	1
o-Terphenyl	100		70 - 130				02/19/24 15:13	02/21/24 02:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	875		24.8		mg/Kg			02/20/24 00:34	5

Client Sample ID: BH - 23 (4.0')

Lab Sample ID: 890-6200-16

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:29	02/26/24 20:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:29	02/26/24 20:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:29	02/26/24 20:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/26/24 08:29	02/26/24 20:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/26/24 08:29	02/26/24 20:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/26/24 08:29	02/26/24 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				02/26/24 08:29	02/26/24 20:03	1
1,4-Difluorobenzene (Surr)	102		70 - 130				02/26/24 08:29	02/26/24 20:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/26/24 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	74.5		50.3		mg/Kg			02/21/24 03:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *- *1	50.3		mg/Kg		02/19/24 15:13	02/21/24 03:00	1
Diesel Range Organics (Over C10-C28)	74.5	*- *1	50.3		mg/Kg		02/19/24 15:13	02/21/24 03:00	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		02/19/24 15:13	02/21/24 03:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				02/19/24 15:13	02/21/24 03:00	1
o-Terphenyl	124		70 - 130				02/19/24 15:13	02/21/24 03:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	530		4.96		mg/Kg			02/20/24 00:39	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: BH - 24 (4.0")

Lab Sample ID: 890-6200-17

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/26/24 08:29	02/26/24 20:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/26/24 08:29	02/26/24 20:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/26/24 08:29	02/26/24 20:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/26/24 08:29	02/26/24 20:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/26/24 08:29	02/26/24 20:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/26/24 08:29	02/26/24 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	02/26/24 08:29	02/26/24 20:25	1
1,4-Difluorobenzene (Surr)	102		70 - 130	02/26/24 08:29	02/26/24 20:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/26/24 20:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/21/24 03:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *- *1	50.5		mg/Kg		02/19/24 15:13	02/21/24 03:23	1
Diesel Range Organics (Over C10-C28)	<50.5	U *- *1	50.5		mg/Kg		02/19/24 15:13	02/21/24 03:23	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/19/24 15:13	02/21/24 03:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	02/19/24 15:13	02/21/24 03:23	1
o-Terphenyl	109		70 - 130	02/19/24 15:13	02/21/24 03:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	505		5.00		mg/Kg			02/20/24 00:43	1

Client Sample ID: BH - 27 (4.0')

Lab Sample ID: 890-6200-18

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/26/24 08:29	02/26/24 20:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/26/24 08:29	02/26/24 20:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/26/24 08:29	02/26/24 20:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/26/24 08:29	02/26/24 20:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/26/24 08:29	02/26/24 20:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/26/24 08:29	02/26/24 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	02/26/24 08:29	02/26/24 20:46	1
1,4-Difluorobenzene (Surr)	107		70 - 130	02/26/24 08:29	02/26/24 20:46	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: BH - 27 (4.0')

Lab Sample ID: 890-6200-18

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/26/24 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/21/24 05:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	50.0		mg/Kg		02/19/24 15:13	02/21/24 05:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U *- *1	50.0		mg/Kg		02/19/24 15:13	02/21/24 05:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/24 15:13	02/21/24 05:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				02/19/24 15:13	02/21/24 05:39	1
o-Terphenyl	101		70 - 130				02/19/24 15:13	02/21/24 05:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.4		4.99		mg/Kg			02/20/24 00:48	1

Client Sample ID: BH - 28 (4.0')

Lab Sample ID: 890-6200-19

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/26/24 08:29	02/26/24 21:07	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/26/24 08:29	02/26/24 21:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/26/24 08:29	02/26/24 21:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/26/24 08:29	02/26/24 21:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/26/24 08:29	02/26/24 21:07	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/26/24 08:29	02/26/24 21:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				02/26/24 08:29	02/26/24 21:07	1
1,4-Difluorobenzene (Surr)	100		70 - 130				02/26/24 08:29	02/26/24 21:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/26/24 21:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/21/24 03:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	49.9		mg/Kg		02/19/24 15:13	02/21/24 03:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U *- *1	49.9		mg/Kg		02/19/24 15:13	02/21/24 03:46	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: BH - 28 (4.0')

Lab Sample ID: 890-6200-19

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/19/24 15:13	02/21/24 03:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				02/19/24 15:13	02/21/24 03:46	1
o-Terphenyl	94		70 - 130				02/19/24 15:13	02/21/24 03:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		5.04		mg/Kg			02/20/24 00:52	1

Client Sample ID: BH - 29 (4.0')

Lab Sample ID: 890-6200-20

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:29	02/26/24 21:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:29	02/26/24 21:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:29	02/26/24 21:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/26/24 08:29	02/26/24 21:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:29	02/26/24 21:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/26/24 08:29	02/26/24 21:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130				02/26/24 08:29	02/26/24 21:28	1
1,4-Difluorobenzene (Surr)	108		70 - 130				02/26/24 08:29	02/26/24 21:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/26/24 21:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/21/24 04:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U *- *1	50.2		mg/Kg		02/19/24 15:13	02/21/24 04:08	1
Diesel Range Organics (Over C10-C28)	<50.2	U *- *1	50.2		mg/Kg		02/19/24 15:13	02/21/24 04:08	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/19/24 15:13	02/21/24 04:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				02/19/24 15:13	02/21/24 04:08	1
o-Terphenyl	98		70 - 130				02/19/24 15:13	02/21/24 04:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		5.02		mg/Kg			02/20/24 00:57	1

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Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-39546-A-2-C MS	Matrix Spike	79	120
880-39546-A-2-D MSD	Matrix Spike Duplicate	84	116
890-6200-1	SW - 5	82	110
890-6200-1 MS	SW - 5	91	107
890-6200-1 MSD	SW - 5	90	107
890-6200-2	SW - 6	93	113
890-6200-3	SW - 8	87	110
890-6200-4	SW - 9	87	110
890-6200-5	SW - 10	90	112
890-6200-6	SW - 11	90	111
890-6200-7	SW - 14	110	106
890-6200-8	SW - 18	95	110
890-6200-9	BH - 3 (2.0')	76	86
890-6200-10	BH - 4 (2.0')	95	106
890-6200-11	BH - 6 (2.0')	85	95
890-6200-12	BH - 8 (3.0')	89	103
890-6200-13	BH - 9 (3.0')	86	105
890-6200-14	BH - 10 (4.0')	59 S1-	103
890-6200-15	BH - 22 (4.0')	83	106
890-6200-16	BH - 23 (4.0')	78	102
890-6200-17	BH - 24 (4.0"0	81	102
890-6200-18	BH - 27 (4.0')	84	107
890-6200-19	BH - 28 (4.0')	79	100
890-6200-20	BH - 29 (4.0')	78	108
890-6251-A-7-C MS	Matrix Spike	104	112
890-6251-A-7-D MSD	Matrix Spike Duplicate	97	120
LCS 880-73794/1-A	Lab Control Sample	83	103
LCS 880-73897/1-A	Lab Control Sample	88	122
LCS 880-73996/1-A	Lab Control Sample	106	124
LCSD 880-73794/2-A	Lab Control Sample Dup	88	108
LCSD 880-73897/2-A	Lab Control Sample Dup	78	113
LCSD 880-73996/2-A	Lab Control Sample Dup	97	125
MB 880-73794/5-A	Method Blank	77	100
MB 880-73897/5-A	Method Blank	69 S1-	104
MB 880-73996/5-A	Method Blank	68 S1-	106
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-6200-1	SW - 5	120	107
890-6200-2	SW - 6	111	93
890-6200-2 MS	SW - 6	113	86
890-6200-2 MSD	SW - 6	126	96

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Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-6200-3	SW - 8	118	103
890-6200-4	SW - 9	120	101
890-6200-5	SW - 10	122	110
890-6200-6	SW - 11	134 S1+	123
890-6200-7	SW - 14	151 S1+	139 S1+
890-6200-8	SW - 18	127	116
890-6200-9	BH - 3 (2.0')	173 S1+	146 S1+
890-6200-10	BH - 4 (2.0')	144 S1+	124
890-6200-11	BH - 6 (2.0')	178 S1+	149 S1+
890-6200-12	BH - 8 (3.0')	117	109
890-6200-13	BH - 9 (3.0')	122	112
890-6200-14	BH - 10 (4.0')	121	106
890-6200-15	BH - 22 (4.0')	110	100
890-6200-16	BH - 23 (4.0')	136 S1+	124
890-6200-17	BH - 24 (4.0")	121	109
890-6200-18	BH - 27 (4.0')	116	101
890-6200-19	BH - 28 (4.0')	109	94
890-6200-20	BH - 29 (4.0')	112	98
LCS 880-73546/2-A	Lab Control Sample	115	124
LCSD 880-73546/3-A	Lab Control Sample Dup	45 S1-	37 S1-
MB 880-73546/1-A	Method Blank	129	117

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73794/5-A

Matrix: Solid

Analysis Batch: 73978

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73794

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/24 14:02	02/24/24 13:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/24 14:02	02/24/24 13:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/24 14:02	02/24/24 13:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/21/24 14:02	02/24/24 13:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/24 14:02	02/24/24 13:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/21/24 14:02	02/24/24 13:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	02/21/24 14:02	02/24/24 13:34	1
1,4-Difluorobenzene (Surr)	100		70 - 130	02/21/24 14:02	02/24/24 13:34	1

Lab Sample ID: LCS 880-73794/1-A

Matrix: Solid

Analysis Batch: 73978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73794

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1005		mg/Kg		101	70 - 130
Toluene	0.100	0.07803		mg/Kg		78	70 - 130
Ethylbenzene	0.100	0.07338		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	0.200	0.1436		mg/Kg		72	70 - 130
o-Xylene	0.100	0.07469		mg/Kg		75	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-73794/2-A

Matrix: Solid

Analysis Batch: 73978

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73794

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1058		mg/Kg		106	70 - 130	5	35
Toluene	0.100	0.08237		mg/Kg		82	70 - 130	5	35
Ethylbenzene	0.100	0.07865		mg/Kg		79	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1498		mg/Kg		75	70 - 130	4	35
o-Xylene	0.100	0.07925		mg/Kg		79	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-6200-1 MS

Matrix: Solid

Analysis Batch: 73978

Client Sample ID: SW - 5

Prep Type: Total/NA

Prep Batch: 73794

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.1039		mg/Kg		103	70 - 130
Toluene	<0.00199	U F1	0.101	0.07386		mg/Kg		73	70 - 130

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

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

Lab Sample ID: 890-6200-1 MS

Matrix: Solid

Analysis Batch: 73978

Client Sample ID: SW - 5

Prep Type: Total/NA

Prep Batch: 73794

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1	0.101	0.04358	F1	mg/Kg		43	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1188	F1	mg/Kg		59	70 - 130
o-Xylene	<0.00199	U F1	0.101	0.06247	F1	mg/Kg		62	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-6200-1 MSD

Matrix: Solid

Analysis Batch: 73978

Client Sample ID: SW - 5

Prep Type: Total/NA

Prep Batch: 73794

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.09050		mg/Kg		91	70 - 130	14	35
Toluene	<0.00199	U F1	0.100	0.06435	F1	mg/Kg		64	70 - 130	14	35
Ethylbenzene	<0.00199	U F1	0.100	0.03906	F1	mg/Kg		39	70 - 130	11	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1005	F1	mg/Kg		50	70 - 130	17	35
o-Xylene	<0.00199	U F1	0.100	0.05253	F1	mg/Kg		53	70 - 130	17	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-73897/5-A

Matrix: Solid

Analysis Batch: 73993

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73897

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/22/24 17:07	02/27/24 00:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/24 17:07	02/27/24 00:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/24 17:07	02/27/24 00:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/22/24 17:07	02/27/24 00:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/24 17:07	02/27/24 00:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/22/24 17:07	02/27/24 00:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	02/22/24 17:07	02/27/24 00:23	1
1,4-Difluorobenzene (Surr)	104		70 - 130	02/22/24 17:07	02/27/24 00:23	1

Lab Sample ID: LCS 880-73897/1-A

Matrix: Solid

Analysis Batch: 73993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73897

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1213		mg/Kg		121	70 - 130
Toluene	0.100	0.09931		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.09610		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1951		mg/Kg		98	70 - 130

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-73897/1-A

Matrix: Solid

Analysis Batch: 73993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73897

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09613		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	122		70 - 130

Lab Sample ID: LCSD 880-73897/2-A

Matrix: Solid

Analysis Batch: 73993

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73897

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1095		mg/Kg		110	70 - 130	10	35
Toluene	0.100	0.09718		mg/Kg		97	70 - 130	2	35
Ethylbenzene	0.100	0.08667		mg/Kg		87	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1731		mg/Kg		87	70 - 130	12	35
o-Xylene	0.100	0.08481		mg/Kg		85	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	78		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-39546-A-2-C MS

Matrix: Solid

Analysis Batch: 73993

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 73897

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.1157		mg/Kg		115	70 - 130
Toluene	<0.00199	U	0.101	0.09812		mg/Kg		97	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.08444		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1664		mg/Kg		83	70 - 130
o-Xylene	<0.00199	U	0.101	0.08116		mg/Kg		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	79		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

Lab Sample ID: 880-39546-A-2-D MSD

Matrix: Solid

Analysis Batch: 73993

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 73897

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1008		mg/Kg		101	70 - 130	14	35
Toluene	<0.00199	U	0.100	0.08462		mg/Kg		84	70 - 130	15	35
Ethylbenzene	<0.00199	U	0.100	0.07554		mg/Kg		76	70 - 130	11	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1498		mg/Kg		75	70 - 130	11	35
o-Xylene	<0.00199	U	0.100	0.07292		mg/Kg		73	70 - 130	11	35

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

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

Lab Sample ID: 880-39546-A-2-D MSD

Matrix: Solid

Analysis Batch: 73993

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 73897

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: MB 880-73996/5-A

Matrix: Solid

Analysis Batch: 73993

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73996

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:29	02/26/24 11:16	1	
Toluene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:29	02/26/24 11:16	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:29	02/26/24 11:16	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/26/24 08:29	02/26/24 11:16	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/26/24 08:29	02/26/24 11:16	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/26/24 08:29	02/26/24 11:16	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130				02/26/24 08:29	02/26/24 11:16	1	
1,4-Difluorobenzene (Surr)	106		70 - 130				02/26/24 08:29	02/26/24 11:16	1	

Lab Sample ID: LCS 880-73996/1-A

Matrix: Solid

Analysis Batch: 73993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73996

	Spike	LCS	LCS						%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.1064		mg/Kg		106	70 - 130			
Toluene	0.100	0.09270		mg/Kg		93	70 - 130			
Ethylbenzene	0.100	0.08924		mg/Kg		89	70 - 130			
m-Xylene & p-Xylene	0.200	0.2223		mg/Kg		111	70 - 130			
o-Xylene	0.100	0.1072		mg/Kg		107	70 - 130			

	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	106		70 - 130							
1,4-Difluorobenzene (Surr)	124		70 - 130							

Lab Sample ID: LCSD 880-73996/2-A

Matrix: Solid

Analysis Batch: 73993

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73996

	Spike	LCSD	LCSD						%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD			Limit	
Benzene	0.100	0.09412		mg/Kg		94	70 - 130	12			35	
Toluene	0.100	0.07787		mg/Kg		78	70 - 130	17			35	
Ethylbenzene	0.100	0.08979		mg/Kg		90	70 - 130	1			35	
m-Xylene & p-Xylene	0.200	0.1866		mg/Kg		93	70 - 130	17			35	
o-Xylene	0.100	0.09016		mg/Kg		90	70 - 130	17			35	

	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	97		70 - 130									

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-73996/2-A
Matrix: Solid
Analysis Batch: 73993

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73996

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	125		70 - 130

Lab Sample ID: 890-6251-A-7-C MS
Matrix: Solid
Analysis Batch: 73993

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 73996

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.07492		mg/Kg		74	70 - 130
Toluene	<0.00201	U	0.101	0.07363		mg/Kg		73	70 - 130
Ethylbenzene	<0.00201	U	0.101	0.07867		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1593		mg/Kg		79	70 - 130
o-Xylene	<0.00201	U	0.101	0.07769		mg/Kg		77	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 890-6251-A-7-D MSD
Matrix: Solid
Analysis Batch: 73993

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 73996

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.08240		mg/Kg		82	70 - 130	10	35
Toluene	<0.00201	U	0.100	0.07727		mg/Kg		77	70 - 130	5	35
Ethylbenzene	<0.00201	U	0.100	0.08016		mg/Kg		80	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1621		mg/Kg		81	70 - 130	2	35
o-Xylene	<0.00201	U	0.100	0.07891		mg/Kg		79	70 - 130	2	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

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

Lab Sample ID: MB 880-73546/1-A
Matrix: Solid
Analysis Batch: 73598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/19/24 15:13	02/20/24 20:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/19/24 15:13	02/20/24 20:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/24 15:13	02/20/24 20:27	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	129		70 - 130	02/19/24 15:13	02/20/24 20:27	1			
o-Terphenyl	117		70 - 130	02/19/24 15:13	02/20/24 20:27	1			

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-73546/2-A

Matrix: Solid

Analysis Batch: 73598

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73546

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	981.1		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1021		mg/Kg		102	70 - 130		
		LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	115		70 - 130								
o-Terphenyl	124		70 - 130								

Lab Sample ID: LCSD 880-73546/3-A

Matrix: Solid

Analysis Batch: 73598

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73546

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier			Limits	Limits	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	321.4	*- *1	mg/Kg		32	70 - 130	101	20
Diesel Range Organics (Over C10-C28)			1000	341.5	*- *1	mg/Kg		34	70 - 130	100	20
Surrogate	LCSD		Limits								
	%Recovery	Qualifier									
1-Chlorooctane	45	S1-	70 - 130								
o-Terphenyl	37	S1-	70 - 130								

Lab Sample ID: 890-6200-2 MS

Matrix: Solid

Analysis Batch: 73598

Client Sample ID: SW - 6

Prep Type: Total/NA

Prep Batch: 73546

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *- *1	1000	1076		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U *- *1	1000	974.0		mg/Kg		95	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	113		70 - 130								
o-Terphenyl	86		70 - 130								

Lab Sample ID: 890-6200-2 MSD

Matrix: Solid

Analysis Batch: 73598

Client Sample ID: SW - 6

Prep Type: Total/NA

Prep Batch: 73546

	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 *- *1	1000	1217		mg/Kg		119	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<50.0	U *- *1	1000	1108		mg/Kg		108	70 - 130	13	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	126		70 - 130								

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

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

Lab Sample ID: 890-6200-2 MSD
Matrix: Solid
Analysis Batch: 73598

Client Sample ID: SW - 6
Prep Type: Total/NA
Prep Batch: 73546

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	96		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73330/1-A
Matrix: Solid
Analysis Batch: 73582

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00		mg/Kg			02/19/24 22:38		1

Lab Sample ID: LCS 880-73330/2-A
Matrix: Solid
Analysis Batch: 73582

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte		Spike	LCS	LCS				%Rec		
		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride		250	247.2		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-73330/3-A
Matrix: Solid
Analysis Batch: 73582

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte		Spike	LCSD	LCSD				%Rec		RPD
		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		250	247.3		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-6200-1 MS
Matrix: Solid
Analysis Batch: 73582

Client Sample ID: SW - 5
Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS			%Rec		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	72.9		251	324.7		mg/Kg		101	90 - 110	

Lab Sample ID: 890-6200-1 MSD
Matrix: Solid
Analysis Batch: 73582

Client Sample ID: SW - 5
Prep Type: Soluble

Analyte	Sample	Sample	Spike	MSD	MSD			%Rec		RPD
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Chloride	72.9		251	325.0		mg/Kg		101	90 - 110	0

Lab Sample ID: 890-6200-11 MS
Matrix: Solid
Analysis Batch: 73582

Client Sample ID: BH - 6 (2.0')
Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS			%Rec		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	61.0		252	312.7		mg/Kg		100	90 - 110	

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-6200-11 MSD					Client Sample ID: BH - 6 (2.0')							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 73582												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	61.0		252	313.3		mg/Kg		100	90 - 110	0	20	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

GC VOA

Prep Batch: 73794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6200-1	SW - 5	Total/NA	Solid	5035	
890-6200-2	SW - 6	Total/NA	Solid	5035	
890-6200-3	SW - 8	Total/NA	Solid	5035	
890-6200-4	SW - 9	Total/NA	Solid	5035	
890-6200-5	SW - 10	Total/NA	Solid	5035	
890-6200-6	SW - 11	Total/NA	Solid	5035	
890-6200-7	SW - 14	Total/NA	Solid	5035	
890-6200-8	SW - 18	Total/NA	Solid	5035	
890-6200-9	BH - 3 (2.0')	Total/NA	Solid	5035	
890-6200-10	BH - 4 (2.0')	Total/NA	Solid	5035	
MB 880-73794/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73794/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73794/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6200-1 MS	SW - 5	Total/NA	Solid	5035	
890-6200-1 MSD	SW - 5	Total/NA	Solid	5035	

Prep Batch: 73897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6200-11	BH - 6 (2.0')	Total/NA	Solid	5035	
890-6200-12	BH - 8 (3.0')	Total/NA	Solid	5035	
MB 880-73897/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73897/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73897/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-39546-A-2-C MS	Matrix Spike	Total/NA	Solid	5035	
880-39546-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 73978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6200-1	SW - 5	Total/NA	Solid	8021B	73794
890-6200-2	SW - 6	Total/NA	Solid	8021B	73794
890-6200-3	SW - 8	Total/NA	Solid	8021B	73794
890-6200-4	SW - 9	Total/NA	Solid	8021B	73794
890-6200-5	SW - 10	Total/NA	Solid	8021B	73794
890-6200-6	SW - 11	Total/NA	Solid	8021B	73794
890-6200-7	SW - 14	Total/NA	Solid	8021B	73794
890-6200-8	SW - 18	Total/NA	Solid	8021B	73794
890-6200-9	BH - 3 (2.0')	Total/NA	Solid	8021B	73794
890-6200-10	BH - 4 (2.0')	Total/NA	Solid	8021B	73794
MB 880-73794/5-A	Method Blank	Total/NA	Solid	8021B	73794
LCS 880-73794/1-A	Lab Control Sample	Total/NA	Solid	8021B	73794
LCSD 880-73794/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73794
890-6200-1 MS	SW - 5	Total/NA	Solid	8021B	73794
890-6200-1 MSD	SW - 5	Total/NA	Solid	8021B	73794

Analysis Batch: 73993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6200-11	BH - 6 (2.0')	Total/NA	Solid	8021B	73897
890-6200-12	BH - 8 (3.0')	Total/NA	Solid	8021B	73897
890-6200-13	BH - 9 (3.0')	Total/NA	Solid	8021B	73996
890-6200-14	BH - 10 (4.0')	Total/NA	Solid	8021B	73996
890-6200-15	BH - 22 (4.0')	Total/NA	Solid	8021B	73996

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QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 73993 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6200-16	BH - 23 (4.0')	Total/NA	Solid	8021B	73996
890-6200-17	BH - 24 (4.0"0	Total/NA	Solid	8021B	73996
890-6200-18	BH - 27 (4.0')	Total/NA	Solid	8021B	73996
890-6200-19	BH - 28 (4.0')	Total/NA	Solid	8021B	73996
890-6200-20	BH - 29 (4.0')	Total/NA	Solid	8021B	73996
MB 880-73897/5-A	Method Blank	Total/NA	Solid	8021B	73897
MB 880-73996/5-A	Method Blank	Total/NA	Solid	8021B	73996
LCS 880-73897/1-A	Lab Control Sample	Total/NA	Solid	8021B	73897
LCS 880-73996/1-A	Lab Control Sample	Total/NA	Solid	8021B	73996
LCSD 880-73897/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73897
LCSD 880-73996/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73996
880-39546-A-2-C MS	Matrix Spike	Total/NA	Solid	8021B	73897
880-39546-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	73897
890-6251-A-7-C MS	Matrix Spike	Total/NA	Solid	8021B	73996
890-6251-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	73996

Prep Batch: 73996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6200-13	BH - 9 (3.0')	Total/NA	Solid	5035	
890-6200-14	BH - 10 (4.0')	Total/NA	Solid	5035	
890-6200-15	BH - 22 (4.0')	Total/NA	Solid	5035	
890-6200-16	BH - 23 (4.0')	Total/NA	Solid	5035	
890-6200-17	BH - 24 (4.0"0	Total/NA	Solid	5035	
890-6200-18	BH - 27 (4.0')	Total/NA	Solid	5035	
890-6200-19	BH - 28 (4.0')	Total/NA	Solid	5035	
890-6200-20	BH - 29 (4.0')	Total/NA	Solid	5035	
MB 880-73996/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73996/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73996/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6251-A-7-C MS	Matrix Spike	Total/NA	Solid	5035	
890-6251-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 74059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6200-1	SW - 5	Total/NA	Solid	Total BTEX	
890-6200-2	SW - 6	Total/NA	Solid	Total BTEX	
890-6200-3	SW - 8	Total/NA	Solid	Total BTEX	
890-6200-4	SW - 9	Total/NA	Solid	Total BTEX	
890-6200-5	SW - 10	Total/NA	Solid	Total BTEX	
890-6200-6	SW - 11	Total/NA	Solid	Total BTEX	
890-6200-7	SW - 14	Total/NA	Solid	Total BTEX	
890-6200-8	SW - 18	Total/NA	Solid	Total BTEX	
890-6200-9	BH - 3 (2.0')	Total/NA	Solid	Total BTEX	
890-6200-10	BH - 4 (2.0')	Total/NA	Solid	Total BTEX	
890-6200-11	BH - 6 (2.0')	Total/NA	Solid	Total BTEX	
890-6200-12	BH - 8 (3.0')	Total/NA	Solid	Total BTEX	
890-6200-13	BH - 9 (3.0')	Total/NA	Solid	Total BTEX	
890-6200-14	BH - 10 (4.0')	Total/NA	Solid	Total BTEX	
890-6200-15	BH - 22 (4.0')	Total/NA	Solid	Total BTEX	
890-6200-16	BH - 23 (4.0')	Total/NA	Solid	Total BTEX	
890-6200-17	BH - 24 (4.0"0	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 74059 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6200-18	BH - 27 (4.0')	Total/NA	Solid	Total BTEX	
890-6200-19	BH - 28 (4.0')	Total/NA	Solid	Total BTEX	
890-6200-20	BH - 29 (4.0')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 73546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6200-1	SW - 5	Total/NA	Solid	8015NM Prep	
890-6200-2	SW - 6	Total/NA	Solid	8015NM Prep	
890-6200-3	SW - 8	Total/NA	Solid	8015NM Prep	
890-6200-4	SW - 9	Total/NA	Solid	8015NM Prep	
890-6200-5	SW - 10	Total/NA	Solid	8015NM Prep	
890-6200-6	SW - 11	Total/NA	Solid	8015NM Prep	
890-6200-7	SW - 14	Total/NA	Solid	8015NM Prep	
890-6200-8	SW - 18	Total/NA	Solid	8015NM Prep	
890-6200-9	BH - 3 (2.0')	Total/NA	Solid	8015NM Prep	
890-6200-10	BH - 4 (2.0')	Total/NA	Solid	8015NM Prep	
890-6200-11	BH - 6 (2.0')	Total/NA	Solid	8015NM Prep	
890-6200-12	BH - 8 (3.0')	Total/NA	Solid	8015NM Prep	
890-6200-13	BH - 9 (3.0')	Total/NA	Solid	8015NM Prep	
890-6200-14	BH - 10 (4.0')	Total/NA	Solid	8015NM Prep	
890-6200-15	BH - 22 (4.0')	Total/NA	Solid	8015NM Prep	
890-6200-16	BH - 23 (4.0')	Total/NA	Solid	8015NM Prep	
890-6200-17	BH - 24 (4.0"0	Total/NA	Solid	8015NM Prep	
890-6200-18	BH - 27 (4.0')	Total/NA	Solid	8015NM Prep	
890-6200-19	BH - 28 (4.0')	Total/NA	Solid	8015NM Prep	
890-6200-20	BH - 29 (4.0')	Total/NA	Solid	8015NM Prep	
MB 880-73546/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73546/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73546/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6200-2 MS	SW - 6	Total/NA	Solid	8015NM Prep	
890-6200-2 MSD	SW - 6	Total/NA	Solid	8015NM Prep	

Analysis Batch: 73598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6200-1	SW - 5	Total/NA	Solid	8015B NM	73546
890-6200-2	SW - 6	Total/NA	Solid	8015B NM	73546
890-6200-3	SW - 8	Total/NA	Solid	8015B NM	73546
890-6200-4	SW - 9	Total/NA	Solid	8015B NM	73546
890-6200-5	SW - 10	Total/NA	Solid	8015B NM	73546
890-6200-6	SW - 11	Total/NA	Solid	8015B NM	73546
890-6200-7	SW - 14	Total/NA	Solid	8015B NM	73546
890-6200-8	SW - 18	Total/NA	Solid	8015B NM	73546
890-6200-9	BH - 3 (2.0')	Total/NA	Solid	8015B NM	73546
890-6200-10	BH - 4 (2.0')	Total/NA	Solid	8015B NM	73546
890-6200-11	BH - 6 (2.0')	Total/NA	Solid	8015B NM	73546
890-6200-12	BH - 8 (3.0')	Total/NA	Solid	8015B NM	73546
890-6200-13	BH - 9 (3.0')	Total/NA	Solid	8015B NM	73546
890-6200-14	BH - 10 (4.0')	Total/NA	Solid	8015B NM	73546
890-6200-15	BH - 22 (4.0')	Total/NA	Solid	8015B NM	73546

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QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 73598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6200-16	BH - 23 (4.0')	Total/NA	Solid	8015B NM	73546
890-6200-17	BH - 24 (4.0"0	Total/NA	Solid	8015B NM	73546
890-6200-18	BH - 27 (4.0')	Total/NA	Solid	8015B NM	73546
890-6200-19	BH - 28 (4.0')	Total/NA	Solid	8015B NM	73546
890-6200-20	BH - 29 (4.0')	Total/NA	Solid	8015B NM	73546
MB 880-73546/1-A	Method Blank	Total/NA	Solid	8015B NM	73546
LCS 880-73546/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73546
LCSD 880-73546/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73546
890-6200-2 MS	SW - 6	Total/NA	Solid	8015B NM	73546
890-6200-2 MSD	SW - 6	Total/NA	Solid	8015B NM	73546

Analysis Batch: 73764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6200-1	SW - 5	Total/NA	Solid	8015 NM	
890-6200-2	SW - 6	Total/NA	Solid	8015 NM	
890-6200-3	SW - 8	Total/NA	Solid	8015 NM	
890-6200-4	SW - 9	Total/NA	Solid	8015 NM	
890-6200-5	SW - 10	Total/NA	Solid	8015 NM	
890-6200-6	SW - 11	Total/NA	Solid	8015 NM	
890-6200-7	SW - 14	Total/NA	Solid	8015 NM	
890-6200-8	SW - 18	Total/NA	Solid	8015 NM	
890-6200-9	BH - 3 (2.0')	Total/NA	Solid	8015 NM	
890-6200-10	BH - 4 (2.0')	Total/NA	Solid	8015 NM	
890-6200-11	BH - 6 (2.0')	Total/NA	Solid	8015 NM	
890-6200-12	BH - 8 (3.0')	Total/NA	Solid	8015 NM	
890-6200-13	BH - 9 (3.0')	Total/NA	Solid	8015 NM	
890-6200-14	BH - 10 (4.0')	Total/NA	Solid	8015 NM	
890-6200-15	BH - 22 (4.0')	Total/NA	Solid	8015 NM	
890-6200-16	BH - 23 (4.0')	Total/NA	Solid	8015 NM	
890-6200-17	BH - 24 (4.0"0	Total/NA	Solid	8015 NM	
890-6200-18	BH - 27 (4.0')	Total/NA	Solid	8015 NM	
890-6200-19	BH - 28 (4.0')	Total/NA	Solid	8015 NM	
890-6200-20	BH - 29 (4.0')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 73330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6200-1	SW - 5	Soluble	Solid	DI Leach	
890-6200-2	SW - 6	Soluble	Solid	DI Leach	
890-6200-3	SW - 8	Soluble	Solid	DI Leach	
890-6200-4	SW - 9	Soluble	Solid	DI Leach	
890-6200-5	SW - 10	Soluble	Solid	DI Leach	
890-6200-6	SW - 11	Soluble	Solid	DI Leach	
890-6200-7	SW - 14	Soluble	Solid	DI Leach	
890-6200-8	SW - 18	Soluble	Solid	DI Leach	
890-6200-9	BH - 3 (2.0')	Soluble	Solid	DI Leach	
890-6200-10	BH - 4 (2.0')	Soluble	Solid	DI Leach	
890-6200-11	BH - 6 (2.0')	Soluble	Solid	DI Leach	
890-6200-12	BH - 8 (3.0')	Soluble	Solid	DI Leach	
890-6200-13	BH - 9 (3.0')	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 73330 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6200-14	BH - 10 (4.0')	Soluble	Solid	DI Leach	
890-6200-15	BH - 22 (4.0')	Soluble	Solid	DI Leach	
890-6200-16	BH - 23 (4.0')	Soluble	Solid	DI Leach	
890-6200-17	BH - 24 (4.0"0	Soluble	Solid	DI Leach	
890-6200-18	BH - 27 (4.0')	Soluble	Solid	DI Leach	
890-6200-19	BH - 28 (4.0')	Soluble	Solid	DI Leach	
890-6200-20	BH - 29 (4.0')	Soluble	Solid	DI Leach	
MB 880-73330/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73330/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73330/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6200-1 MS	SW - 5	Soluble	Solid	DI Leach	
890-6200-1 MSD	SW - 5	Soluble	Solid	DI Leach	
890-6200-11 MS	BH - 6 (2.0')	Soluble	Solid	DI Leach	
890-6200-11 MSD	BH - 6 (2.0')	Soluble	Solid	DI Leach	

Analysis Batch: 73582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6200-1	SW - 5	Soluble	Solid	300.0	73330
890-6200-2	SW - 6	Soluble	Solid	300.0	73330
890-6200-3	SW - 8	Soluble	Solid	300.0	73330
890-6200-4	SW - 9	Soluble	Solid	300.0	73330
890-6200-5	SW - 10	Soluble	Solid	300.0	73330
890-6200-6	SW - 11	Soluble	Solid	300.0	73330
890-6200-7	SW - 14	Soluble	Solid	300.0	73330
890-6200-8	SW - 18	Soluble	Solid	300.0	73330
890-6200-9	BH - 3 (2.0')	Soluble	Solid	300.0	73330
890-6200-10	BH - 4 (2.0')	Soluble	Solid	300.0	73330
890-6200-11	BH - 6 (2.0')	Soluble	Solid	300.0	73330
890-6200-12	BH - 8 (3.0')	Soluble	Solid	300.0	73330
890-6200-13	BH - 9 (3.0')	Soluble	Solid	300.0	73330
890-6200-14	BH - 10 (4.0')	Soluble	Solid	300.0	73330
890-6200-15	BH - 22 (4.0')	Soluble	Solid	300.0	73330
890-6200-16	BH - 23 (4.0')	Soluble	Solid	300.0	73330
890-6200-17	BH - 24 (4.0"0	Soluble	Solid	300.0	73330
890-6200-18	BH - 27 (4.0')	Soluble	Solid	300.0	73330
890-6200-19	BH - 28 (4.0')	Soluble	Solid	300.0	73330
890-6200-20	BH - 29 (4.0')	Soluble	Solid	300.0	73330
MB 880-73330/1-A	Method Blank	Soluble	Solid	300.0	73330
LCS 880-73330/2-A	Lab Control Sample	Soluble	Solid	300.0	73330
LCSD 880-73330/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73330
890-6200-1 MS	SW - 5	Soluble	Solid	300.0	73330
890-6200-1 MSD	SW - 5	Soluble	Solid	300.0	73330
890-6200-11 MS	BH - 6 (2.0')	Soluble	Solid	300.0	73330
890-6200-11 MSD	BH - 6 (2.0')	Soluble	Solid	300.0	73330

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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: SW - 5
Date Collected: 02/12/24 00:00
Date Received: 02/15/24 13:42

Lab Sample ID: 890-6200-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73794	02/21/24 14:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73978	02/24/24 13:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/24/24 13:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			73764	02/20/24 22:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/20/24 22:47	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	73330	02/16/24 09:33	SA	EET MID
Soluble	Analysis	300.0		1			73582	02/19/24 22:52	CH	EET MID

Client Sample ID: SW - 6
Date Collected: 02/12/24 00:00
Date Received: 02/15/24 13:42

Lab Sample ID: 890-6200-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73794	02/21/24 14:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73978	02/24/24 14:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/24/24 14:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			73764	02/20/24 21:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/20/24 21:37	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73330	02/16/24 09:33	SA	EET MID
Soluble	Analysis	300.0		1			73582	02/19/24 23:06	CH	EET MID

Client Sample ID: SW - 8
Date Collected: 02/12/24 00:00
Date Received: 02/15/24 13:42

Lab Sample ID: 890-6200-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	73794	02/21/24 14:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73978	02/24/24 14:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/24/24 14:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			73764	02/20/24 23:56	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/20/24 23:56	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	73330	02/16/24 09:33	SA	EET MID
Soluble	Analysis	300.0		1			73582	02/19/24 23:10	CH	EET MID

Client Sample ID: SW - 9
Date Collected: 02/12/24 00:00
Date Received: 02/15/24 13:42

Lab Sample ID: 890-6200-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73794	02/21/24 14:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73978	02/24/24 14:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/24/24 14:59	SM	EET MID

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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: SW - 9

Lab Sample ID: 890-6200-4

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			73764	02/20/24 23:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/20/24 23:33	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	73330	02/16/24 09:33	SA	EET MID
Soluble	Analysis	300.0		1			73582	02/19/24 23:15	CH	EET MID

Client Sample ID: SW - 10

Lab Sample ID: 890-6200-5

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73794	02/21/24 14:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73978	02/24/24 15:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/24/24 15:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			73764	02/20/24 23:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/20/24 23:10	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	73330	02/16/24 09:33	SA	EET MID
Soluble	Analysis	300.0		1			73582	02/19/24 23:20	CH	EET MID

Client Sample ID: SW - 11

Lab Sample ID: 890-6200-6

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73794	02/21/24 14:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73978	02/24/24 15:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/24/24 15:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			73764	02/21/24 00:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/21/24 00:19	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	73330	02/16/24 09:33	SA	EET MID
Soluble	Analysis	300.0		1			73582	02/19/24 23:34	CH	EET MID

Client Sample ID: SW - 14

Lab Sample ID: 890-6200-7

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73794	02/21/24 14:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73978	02/24/24 16:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/24/24 16:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			73764	02/21/24 00:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/21/24 00:42	SM	EET MID

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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: SW - 14

Lab Sample ID: 890-6200-7

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	73330	02/16/24 09:33	SA	EET MID
Soluble	Analysis	300.0		1			73582	02/19/24 23:38	CH	EET MID

Client Sample ID: SW - 18

Lab Sample ID: 890-6200-8

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	73794	02/21/24 14:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73978	02/24/24 16:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/24/24 16:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			73764	02/21/24 01:05	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/21/24 01:05	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	73330	02/16/24 09:33	SA	EET MID
Soluble	Analysis	300.0		1			73582	02/19/24 23:43	CH	EET MID

Client Sample ID: BH - 3 (2.0')

Lab Sample ID: 890-6200-9

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73794	02/21/24 14:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73978	02/24/24 16:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/24/24 16:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			73764	02/21/24 01:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/21/24 01:29	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	73330	02/16/24 09:33	SA	EET MID
Soluble	Analysis	300.0		1			73582	02/19/24 23:48	CH	EET MID

Client Sample ID: BH - 4 (2.0')

Lab Sample ID: 890-6200-10

Date Collected: 02/14/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73794	02/21/24 14:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73978	02/24/24 17:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/24/24 17:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			73764	02/21/24 01:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/21/24 01:51	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	73330	02/16/24 09:33	SA	EET MID
Soluble	Analysis	300.0		1			73582	02/19/24 23:52	CH	EET MID

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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: BH - 6 (2.0')
Date Collected: 02/14/24 00:00
Date Received: 02/15/24 13:42

Lab Sample ID: 890-6200-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73897	02/22/24 17:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73993	02/27/24 05:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/27/24 05:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			73764	02/21/24 06:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/21/24 06:02	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	73330	02/16/24 09:33	SA	EET MID
Soluble	Analysis	300.0		1			73582	02/19/24 23:57	CH	EET MID

Client Sample ID: BH - 8 (3.0')
Date Collected: 02/14/24 00:00
Date Received: 02/15/24 13:42

Lab Sample ID: 890-6200-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73897	02/22/24 17:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73993	02/27/24 06:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/27/24 06:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			73764	02/21/24 04:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/21/24 04:31	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	73330	02/16/24 09:34	SA	EET MID
Soluble	Analysis	300.0		1			73582	02/20/24 00:11	CH	EET MID

Client Sample ID: BH - 9 (3.0')
Date Collected: 02/14/24 00:00
Date Received: 02/15/24 13:42

Lab Sample ID: 890-6200-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73996	02/26/24 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73993	02/26/24 19:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/26/24 19:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			73764	02/21/24 04:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/21/24 04:54	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73330	02/16/24 09:34	SA	EET MID
Soluble	Analysis	300.0		1			73582	02/20/24 00:15	CH	EET MID

Client Sample ID: BH - 10 (4.0')
Date Collected: 02/14/24 00:00
Date Received: 02/15/24 13:42

Lab Sample ID: 890-6200-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	73996	02/26/24 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73993	02/26/24 19:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/26/24 19:21	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: BH - 10 (4.0')**Lab Sample ID: 890-6200-14****Date Collected: 02/14/24 00:00****Matrix: Solid****Date Received: 02/15/24 13:42**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			73764	02/21/24 05:17	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/21/24 05:17	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	73330	02/16/24 09:34	SA	EET MID
Soluble	Analysis	300.0		5			73582	02/20/24 00:29	CH	EET MID

Client Sample ID: BH - 22 (4.0')**Lab Sample ID: 890-6200-15****Date Collected: 02/14/24 00:00****Matrix: Solid****Date Received: 02/15/24 13:42**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	73996	02/26/24 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73993	02/26/24 19:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/26/24 19:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			73764	02/21/24 02:37	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/21/24 02:37	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	73330	02/16/24 09:34	SA	EET MID
Soluble	Analysis	300.0		5			73582	02/20/24 00:34	CH	EET MID

Client Sample ID: BH - 23 (4.0')**Lab Sample ID: 890-6200-16****Date Collected: 02/14/24 00:00****Matrix: Solid****Date Received: 02/15/24 13:42**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73996	02/26/24 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73993	02/26/24 20:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/26/24 20:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			73764	02/21/24 03:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/21/24 03:00	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	73330	02/16/24 09:34	SA	EET MID
Soluble	Analysis	300.0		1			73582	02/20/24 00:39	CH	EET MID

Client Sample ID: BH - 24 (4.0"0**Lab Sample ID: 890-6200-17****Date Collected: 02/14/24 00:00****Matrix: Solid****Date Received: 02/15/24 13:42**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73996	02/26/24 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73993	02/26/24 20:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/26/24 20:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			73764	02/21/24 03:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/21/24 03:23	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Client Sample ID: BH - 24 (4.0")**Lab Sample ID: 890-6200-17****Date Collected: 02/14/24 00:00****Matrix: Solid****Date Received: 02/15/24 13:42**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	73330	02/16/24 09:34	SA	EET MID
Soluble	Analysis	300.0		1			73582	02/20/24 00:43	CH	EET MID

Client Sample ID: BH - 27 (4.0')**Lab Sample ID: 890-6200-18****Date Collected: 02/14/24 00:00****Matrix: Solid****Date Received: 02/15/24 13:42**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73996	02/26/24 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73993	02/26/24 20:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/26/24 20:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			73764	02/21/24 05:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/21/24 05:39	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73330	02/16/24 09:34	SA	EET MID
Soluble	Analysis	300.0		1			73582	02/20/24 00:48	CH	EET MID

Client Sample ID: BH - 28 (4.0')**Lab Sample ID: 890-6200-19****Date Collected: 02/14/24 00:00****Matrix: Solid****Date Received: 02/15/24 13:42**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73996	02/26/24 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73993	02/26/24 21:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/26/24 21:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			73764	02/21/24 03:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/21/24 03:46	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	73330	02/16/24 09:34	SA	EET MID
Soluble	Analysis	300.0		1			73582	02/20/24 00:52	CH	EET MID

Client Sample ID: BH - 29 (4.0')**Lab Sample ID: 890-6200-20****Date Collected: 02/14/24 00:00****Matrix: Solid****Date Received: 02/15/24 13:42**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73996	02/26/24 08:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73993	02/26/24 21:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74059	02/26/24 21:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			73764	02/21/24 04:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	73546	02/19/24 15:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/21/24 04:08	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73330	02/16/24 09:34	SA	EET MID
Soluble	Analysis	300.0		1			73582	02/20/24 00:57	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No2

Job ID: 890-6200-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6200-1	SW - 5	Solid	02/12/24 00:00	02/15/24 13:42
890-6200-2	SW - 6	Solid	02/12/24 00:00	02/15/24 13:42
890-6200-3	SW - 8	Solid	02/12/24 00:00	02/15/24 13:42
890-6200-4	SW - 9	Solid	02/12/24 00:00	02/15/24 13:42
890-6200-5	SW - 10	Solid	02/12/24 00:00	02/15/24 13:42
890-6200-6	SW - 11	Solid	02/12/24 00:00	02/15/24 13:42
890-6200-7	SW - 14	Solid	02/12/24 00:00	02/15/24 13:42
890-6200-8	SW - 18	Solid	02/12/24 00:00	02/15/24 13:42
890-6200-9	BH - 3 (2.0')	Solid	02/14/24 00:00	02/15/24 13:42
890-6200-10	BH - 4 (2.0')	Solid	02/14/24 00:00	02/15/24 13:42
890-6200-11	BH - 6 (2.0')	Solid	02/14/24 00:00	02/15/24 13:42
890-6200-12	BH - 8 (3.0')	Solid	02/14/24 00:00	02/15/24 13:42
890-6200-13	BH - 9 (3.0')	Solid	02/14/24 00:00	02/15/24 13:42
890-6200-14	BH - 10 (4.0')	Solid	02/14/24 00:00	02/15/24 13:42
890-6200-15	BH - 22 (4.0')	Solid	02/14/24 00:00	02/15/24 13:42
890-6200-16	BH - 23 (4.0')	Solid	02/14/24 00:00	02/15/24 13:42
890-6200-17	BH - 24 (4.0"0	Solid	02/14/24 00:00	02/15/24 13:42
890-6200-18	BH - 27 (4.0')	Solid	02/14/24 00:00	02/15/24 13:42
890-6200-19	BH - 28 (4.0')	Solid	02/14/24 00:00	02/15/24 13:42
890-6200-20	BH - 29 (4.0')	Solid	02/14/24 00:00	02/15/24 13:42

(Circle) HAND DELIVERED FEDEX UPS Tracking #:



Analysis Request of Chain of Custody Record

Page 2 of 3



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	JR Oil	Site Manager:	Brittany Long
Project Name:	MLMUI Satellite No,2 brittany.long@tetrattech.com		
Project Location: (county, state)	Lea County, NM	Project #:	212C-MD-03133
Invoice to:	ATTN: JR Oil Rex Tippy		
Receiving Laboratory:	Eurofins Xenco	Sampler Signature:	Miguel Flores
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)																	Hold					
		YEAR: 2024		WATER	SOIL	HCL	HNO ₃	ICE	None			BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCBs 8082 / 608	NORM	PLM (Asbestos)	Chloride		Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	
		DATE	TIME																														
	BH-3 (2.0')	2/14/2024		X			X					X	X	X	X											X							
	BH-4 (2.0')	2/14/2024		X				X				X	X	X	X												X						
	BH-6 (2.0')	2/14/2024		X				X				X	X	X	X												X						
	BH-8 (3.0')	2/14/2024		X				X				X	X	X	X												X						
	BH-9 (3.0')	2/14/2024		X				X				X	X	X	X												X						
	BH-10 (4.0')	2/14/2024		X				X				X	X	X	X												X						
	BH-22 (4.0')	2/14/2024		X				X				X	X	X	X												X						
	BH-23 (4.0')	2/14/2024		X				X				X	X	X	X												X						
	BH-24 (4.0')	2/14/2024		X				X				X	X	X	X												X						
	BH-27 (4.0')	2/14/2024		X				X				X	X	X	X												X						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Miguel A Flores	2/15/24	1340	S. S. S. S.	2/15	1340
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
	<input checked="" type="checkbox"/> Standard TAT
	<input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr
	<input type="checkbox"/> Rush Charges Authorized
	<input type="checkbox"/> Special Report Limits or TRRP Report
Sample Temperature	
-2.2	

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-1448

Client Name:	JR Oil	Site Manager:	Brittany Long
Project Name:	MLMUI Satellite No,2		brittany.long@tetratech.com
Project Location: (county, state)	Lea County, NM	Project #:	212C-MD-03133
Invoice to:	ATTN: JR Oil Rex Tippy		
Receiving Laboratory:	Eurofins Xenco	Sampler Signature:	Miguel Flores
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

[illegible]

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Miguel A Flores	2/15/24	1340	Bueno	2/15	1342
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature

-2.2

REMARKS:

☒ Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-6200-1

SDG Number: Lea County NM

Login Number: 6200

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
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	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-6200-1

SDG Number: Lea County NM

Login Number: 6200

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 02/19/24 08:27 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



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

January 29, 2024

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MLMUI SATELLITE #2

Enclosed are the results of analyses for samples received by the laboratory on 01/24/24 14:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/24/2024	Sampling Date:	01/22/2024
Reported:	01/29/2024	Sampling Type:	Soil
Project Name:	MLMUI SATELLITE #2	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03133	Sample Received By:	Dionica Hinojos
Project Location:	JR OIL - LEA COUNTY, NM		

Sample ID: BH - 1 (1.0') (H240320-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2024	ND	2.18	109	2.00	7.38	
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	107	2.00	13.7	
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.21	111	2.00	15.0	
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.63	111	6.00	16.0	
Total BTX	<0.300	0.300	01/24/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/25/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	170	84.9	200	1.63	
DRO >C10-C28*	23.2	10.0	01/24/2024	ND	171	85.3	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 2 (1.0') (H240320-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2024	ND	2.18	109	2.00	7.38	
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	107	2.00	13.7	
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.21	111	2.00	15.0	
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.63	111	6.00	16.0	
Total BTEX	<0.300	0.300	01/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/25/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	170	84.9	200	1.63	
DRO >C10-C28*	21.7	10.0	01/24/2024	ND	171	85.3	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 3 (1.0') (H240320-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2024	ND	2.18	109	2.00	7.38	
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	107	2.00	13.7	
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.21	111	2.00	15.0	
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.63	111	6.00	16.0	
Total BTEX	<0.300	0.300	01/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/25/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	170	84.9	200	1.63	
DRO >C10-C28*	95.1	10.0	01/24/2024	ND	171	85.3	200	4.65	
EXT DRO >C28-C36	33.1	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 4 (1.0') (H240320-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2024	ND	2.18	109	2.00	7.38	
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	107	2.00	13.7	
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.21	111	2.00	15.0	
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.63	111	6.00	16.0	
Total BTEX	<0.300	0.300	01/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/25/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	170	84.9	200	1.63	
DRO >C10-C28*	170	10.0	01/24/2024	ND	171	85.3	200	4.65	
EXT DRO >C28-C36	56.5	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
 Reported: 01/29/2024
 Project Name: MLMUI SATELLITE #2
 Project Number: 212C-MD-03133
 Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BH - 5 (1.0') (H240320-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.18	109	2.00	7.38		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	107	2.00	13.7		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.21	111	2.00	15.0		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.63	111	6.00	16.0		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/25/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	170	84.9	200	1.63	
DRO >C10-C28*	46.4	10.0	01/24/2024	ND	171	85.3	200	4.65	
EXT DRO >C28-C36	25.9	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 80.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 6 (1.0') (H240320-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.18	109	2.00	7.38		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	107	2.00	13.7		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.21	111	2.00	15.0		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.63	111	6.00	16.0		
Total BTX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	170	84.9	200	1.63	
DRO >C10-C28*	279	10.0	01/24/2024	ND	171	85.3	200	4.65	
EXT DRO >C28-C36	134	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 7 (1.0') (H240320-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.18	109	2.00	7.38		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	107	2.00	13.7		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.21	111	2.00	15.0		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.63	111	6.00	16.0		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	170	84.9	200	1.63	
DRO >C10-C28*	43.5	10.0	01/24/2024	ND	171	85.3	200	4.65	
EXT DRO >C28-C36	20.3	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 8 (2.0') (H240320-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.18	109	2.00	7.38		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	107	2.00	13.7		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.21	111	2.00	15.0		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.63	111	6.00	16.0		
Total BTEx	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	170	84.9	200	1.63	
DRO >C10-C28*	139	10.0	01/24/2024	ND	171	85.3	200	4.65	
EXT DRO >C28-C36	44.3	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 9 (2.0') (H240320-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.18	109	2.00	7.38		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	107	2.00	13.7		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.21	111	2.00	15.0		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.63	111	6.00	16.0		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	01/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	170	84.9	200	1.63	
DRO >C10-C28*	72.1	10.0	01/24/2024	ND	171	85.3	200	4.65	
EXT DRO >C28-C36	27.6	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 70.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 11 (4.0') (H240320-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.18	109	2.00	7.38		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	107	2.00	13.7		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.21	111	2.00	15.0		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.63	111	6.00	16.0		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	01/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	170	84.9	200	1.63	
DRO >C10-C28*	730	10.0	01/25/2024	ND	171	85.3	200	4.65	
EXT DRO >C28-C36	341	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 60.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 12 (4.0') (H240320-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.18	109	2.00	7.38		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	107	2.00	13.7		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.21	111	2.00	15.0		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.63	111	6.00	16.0		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	01/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	170	84.9	200	1.63	
DRO >C10-C28*	64.1	10.0	01/25/2024	ND	171	85.3	200	4.65	
EXT DRO >C28-C36	46.1	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 13 (4.0') (H240320-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.18	109	2.00	7.38		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	107	2.00	13.7		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.21	111	2.00	15.0		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.63	111	6.00	16.0		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	01/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	170	84.9	200	1.63	
DRO >C10-C28*	36.1	10.0	01/25/2024	ND	171	85.3	200	4.65	
EXT DRO >C28-C36	17.4	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received: 01/24/2024
 Reported: 01/29/2024
 Project Name: MLMUI SATELLITE #2
 Project Number: 212C-MD-03133
 Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BH - 14 (4.0') (H240320-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2024	ND	2.18	109	2.00	7.38	
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	107	2.00	13.7	
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.21	111	2.00	15.0	
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.63	111	6.00	16.0	
Total BTEX	<0.300	0.300	01/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	01/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	170	84.9	200	1.63	
DRO >C10-C28*	<10.0	10.0	01/25/2024	ND	171	85.3	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 15 (4.0') (H240320-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.18	109	2.00	7.38		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	107	2.00	13.7		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.21	111	2.00	15.0		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.63	111	6.00	16.0		
Total BTEX	<0.300	0.300	01/24/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	01/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	170	84.9	200	1.63	
DRO >C10-C28*	<10.0	10.0	01/25/2024	ND	171	85.3	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 16 (4.0') (H240320-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.18	109	2.00	7.38		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	107	2.00	13.7		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.21	111	2.00	15.0		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.63	111	6.00	16.0		
Total BTEX	<0.300	0.300	01/24/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	01/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	203	101	200	2.14	
DRO >C10-C28*	<10.0	10.0	01/24/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	<10.0	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 01/24/2024
 Reported: 01/29/2024
 Project Name: MLMUI SATELLITE #2
 Project Number: 212C-MD-03133
 Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BH - 17 (4.0') (H240320-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2024	ND	2.18	109	2.00	7.38	
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	107	2.00	13.7	
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.21	111	2.00	15.0	
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.63	111	6.00	16.0	
Total BTEX	<0.300	0.300	01/24/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	01/25/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	203	101	200	2.14	
DRO >C10-C28*	<10.0	10.0	01/24/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	<10.0	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 18 (2.5') (H240320-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/25/2024	ND	2.18	109	2.00	7.38		
Toluene*	<0.050	0.050	01/25/2024	ND	2.13	107	2.00	13.7		
Ethylbenzene*	<0.050	0.050	01/25/2024	ND	2.21	111	2.00	15.0		
Total Xylenes*	<0.150	0.150	01/25/2024	ND	6.63	111	6.00	16.0		
Total BTEX	<0.300	0.300	01/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	01/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	203	101	200	2.14	
DRO >C10-C28*	<10.0	10.0	01/24/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	<10.0	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
 Reported: 01/29/2024
 Project Name: MLMUI SATELLITE #2
 Project Number: 212C-MD-03133
 Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BH - 19 (2.5') (H240320-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357	
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288	
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248	
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205	
Total BTEX	<0.300	0.300	01/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	01/25/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	203	101	200	2.14	
DRO >C10-C28*	<10.0	10.0	01/24/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	<10.0	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 20 (2.5') (H240320-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205		
Total BTEx	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	203	101	200	2.14	
DRO >C10-C28*	<10.0	10.0	01/25/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	<10.0	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 21 (2.5') (H240320-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	01/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	203	101	200	2.14	
DRO >C10-C28*	<10.0	10.0	01/25/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	<10.0	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
 Reported: 01/29/2024
 Project Name: MLMUI SATELLITE #2
 Project Number: 212C-MD-03133
 Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BH - 22 (2.5') (H240320-21)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.085	0.050	01/24/2024	ND	2.14	107	2.00	0.357	
Toluene*	0.216	0.050	01/24/2024	ND	2.13	106	2.00	0.288	
Ethylbenzene*	0.070	0.050	01/24/2024	ND	2.11	106	2.00	0.248	
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205	
Total BTEX	0.371	0.300	01/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/25/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	203	101	200	2.14	
DRO >C10-C28*	98.7	10.0	01/25/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	94.1	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
 Reported: 01/29/2024
 Project Name: MLMUI SATELLITE #2
 Project Number: 212C-MD-03133
 Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BH - 23 (1.5') (H240320-22)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357	
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288	
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248	
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205	
Total BTEX	<0.300	0.300	01/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/25/2024	ND	432	108	400	3.64	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	203	101	200	2.14	
DRO >C10-C28*	216	10.0	01/25/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	126	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 24 (1.5') (H240320-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205		
Total BTEx	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	203	101	200	2.14	
DRO >C10-C28*	102	10.0	01/25/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	68.6	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 63.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 25 (1.5') (H240320-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205		
Total BTEx	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/25/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	203	101	200	2.14	
DRO >C10-C28*	39.5	10.0	01/25/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	16.2	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 67.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 26 (1.5') (H240320-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/25/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	203	101	200	2.14	
DRO >C10-C28*	29.3	10.0	01/25/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	15.4	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 27 (1.5') (H240320-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205		
Total BTEx	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/25/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	203	101	200	2.14	
DRO >C10-C28*	303	10.0	01/25/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	224	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

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

Received: 01/24/2024
 Reported: 01/29/2024
 Project Name: MLMUI SATELLITE #2
 Project Number: 212C-MD-03133
 Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BH - 28 (1.5') (H240320-27)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/25/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	203	101	200	2.14	
DRO >C10-C28*	157	10.0	01/25/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	127	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 29 (1.5') (H240320-28)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/25/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	203	101	200	2.14	
DRO >C10-C28*	140	10.0	01/25/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	128	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW - 1 (H240320-29)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/25/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	203	101	200	2.14	
DRO >C10-C28*	<10.0	10.0	01/25/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	<10.0	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
 Reported: 01/29/2024
 Project Name: MLMUI SATELLITE #2
 Project Number: 212C-MD-03133
 Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 2 (H240320-30)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/25/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	203	101	200	2.14	
DRO >C10-C28*	38.8	10.0	01/25/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	23.8	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
 Reported: 01/29/2024
 Project Name: MLMUI SATELLITE #2
 Project Number: 212C-MD-03133
 Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 3 (H240320-31)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/25/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	203	101	200	2.14	
DRO >C10-C28*	53.1	10.0	01/25/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	10.6	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 146 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW - 4 (H240320-32)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/25/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	203	101	200	2.14	
DRO >C10-C28*	20.0	10.0	01/25/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	<10.0	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW - 5 (H240320-33)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/25/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	203	101	200	2.14	
DRO >C10-C28*	309	10.0	01/25/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	78.4	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW - 6 (H240320-34)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/25/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2024	ND	203	101	200	2.14	
DRO >C10-C28*	1440	10.0	01/25/2024	ND	203	102	200	0.937	
EXT DRO >C28-C36	296	10.0	01/25/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW - 7 (H240320-35)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1720	16.0	01/25/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	191	95.5	200	8.72	
DRO >C10-C28*	<10.0	10.0	01/24/2024	ND	177	88.7	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW - 8 (H240320-36)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	01/25/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	191	95.5	200	8.72	
DRO >C10-C28*	<10.0	10.0	01/24/2024	ND	177	88.7	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW - 12 (H240320-37)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	2.14	107	2.00	0.357		
Toluene*	<0.050	0.050	01/24/2024	ND	2.13	106	2.00	0.288		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.11	106	2.00	0.248		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.16	103	6.00	0.205		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	01/25/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	191	95.5	200	8.72	
DRO >C10-C28*	<10.0	10.0	01/24/2024	ND	177	88.7	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received: 01/24/2024
 Reported: 01/29/2024
 Project Name: MLMUI SATELLITE #2
 Project Number: 212C-MD-03133
 Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 13 (H240320-38)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2024	ND	1.93	96.6	2.00	0.568	
Toluene*	<0.050	0.050	01/24/2024	ND	2.05	103	2.00	1.02	
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.06	103	2.00	1.21	
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.22	104	6.00	1.51	
Total BTEX	<0.300	0.300	01/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/25/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	191	95.5	200	8.72	
DRO >C10-C28*	<10.0	10.0	01/24/2024	ND	177	88.7	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
 Reported: 01/29/2024
 Project Name: MLMUI SATELLITE #2
 Project Number: 212C-MD-03133
 Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 14 (H240320-39)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2024	ND	1.93	96.6	2.00	0.568	
Toluene*	0.061	0.050	01/24/2024	ND	2.05	103	2.00	1.02	
Ethylbenzene*	0.054	0.050	01/24/2024	ND	2.06	103	2.00	1.21	
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.22	104	6.00	1.51	
Total BTX	<0.300	0.300	01/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/25/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	191	95.5	200	8.72	
DRO >C10-C28*	224	10.0	01/24/2024	ND	177	88.7	200	10.3	
EXT DRO >C28-C36	190	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW - 15 (H240320-40)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	1.93	96.6	2.00	0.568		
Toluene*	<0.050	0.050	01/24/2024	ND	2.05	103	2.00	1.02		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.06	103	2.00	1.21		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.22	104	6.00	1.51		
Total BTEX	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/25/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	191	95.5	200	8.72	
DRO >C10-C28*	<10.0	10.0	01/24/2024	ND	177	88.7	200	10.3	
EXT DRO >C28-C36	13.0	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW - 16 (H240320-41)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	1.93	96.6	2.00	0.568		
Toluene*	<0.050	0.050	01/24/2024	ND	2.05	103	2.00	1.02		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.06	103	2.00	1.21		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.22	104	6.00	1.51		
Total BTEx	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/25/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	191	95.5	200	8.72	
DRO >C10-C28*	<10.0	10.0	01/24/2024	ND	177	88.7	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
Reported: 01/29/2024
Project Name: MLMUI SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW - 17 (H240320-42)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/24/2024	ND	1.93	96.6	2.00	0.568		
Toluene*	<0.050	0.050	01/24/2024	ND	2.05	103	2.00	1.02		
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.06	103	2.00	1.21		
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.22	104	6.00	1.51		
Total BTEx	<0.300	0.300	01/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/25/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	191	95.5	200	8.72	
DRO >C10-C28*	25.0	10.0	01/24/2024	ND	177	88.7	200	10.3	
EXT DRO >C28-C36	43.4	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/24/2024
 Reported: 01/29/2024
 Project Name: MLMUI SATELLITE #2
 Project Number: 212C-MD-03133
 Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 01/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 18 (H240320-43)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2024	ND	1.93	96.6	2.00	0.568	
Toluene*	<0.050	0.050	01/24/2024	ND	2.05	103	2.00	1.02	
Ethylbenzene*	<0.050	0.050	01/24/2024	ND	2.06	103	2.00	1.21	
Total Xylenes*	<0.150	0.150	01/24/2024	ND	6.22	104	6.00	1.51	
Total BTEX	<0.300	0.300	01/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/25/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	191	95.5	200	8.72	
DRO >C10-C28*	59.9	10.0	01/24/2024	ND	177	88.7	200	10.3	
EXT DRO >C28-C36	89.9	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

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Received by O&D: 2/14/2025 2:33:49 PM
Released to Imaging: 5/30/2025 1:25:27 PM

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

JR Oil		Site Manager: Brittany Long	
MLMUI Satellite No,2		brittany.long@tetratech.com	
on:	Lea County, NM	Project #: 212C-MD-03133	
ATTN: JR Oil Rex Tippy			
oratory:	Eurofins Xenco	Sampler Signature: Miguel Flores	

ANALYSIS REQUEST (Circle or Specify Method No.)

SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
	YEAR: 2024		WATER	SOIL	HCL	HNO ₃	ICE	None		
	DATE	TIME								
BH-1 (1.0')	1/22/2024		X			X				
BH-2 (1.0')	1/22/2024		X			X				
BH-3 (1.0';)	1/22/2024		X			X				
BH-4 (1.0')	1/22/2024		X			X				
BH-5 (1.0')	1/22/2024		X			X				
BH-6 (1.0')-	1/22/2024		X			X				
BH-7 (1.0')	1/22/2024		X			X				
BH-8 (2.0')	1/22/2024		X			X				
BH-9 (2.0')	1/22/2024		X			X				

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

Date: 1/24/24	Time: 1406	Received by: [Signature]	Date: 1/24/24	Time: 14:08
Date:	Time:	Received by:	Date:	Time:
Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature: 5.5°C

#140

REMARKS:

☒ Standard TAT

☐ RUSH: Same Day 24 hr 48 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

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Page 260 of 347
Received by QAD: 2/18/2025 2:33:49 PM
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Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

JR Oil	Site Manager: Brittany Long
MLMUI Satellite No,2	brittany.long@tetrattech.com
on: Lea County, NM	Project #: 212C-MD-03133
oratory: Eurofins Xenco	Sampler Signature: Miguel Flores

ANALYSIS REQUEST (Circle or Specify Method No.)

SAMPLE IDENTIFICATION			SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8021B	TPH TX1005 (Ext to C	TPH 8015M (GRO - D	PAH 8270C	Total Metals Ag As Ba	TCLP Metals Ag As Ba	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 62	GC/MS Semi. Vol. 827	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride	Sulfate	General Water Chemis	Anion/Cation Balance
			YEAR: 2024		WATER	SOIL	HCL	HNO ₃	ICE	None																						
			DATE	TIME																												
BH-11 (4.0')	1/22/2024		X				X					X	X															X				
BH-12 (4.0')	1/22/2024		X				X					X	X															X				
BH-13 (4.0')	1/22/2024		X				X					X	X															X				
BH-14 (4.0')	1/22/2024		X				X					X	X															X				
BH-15 (4.0')	1/22/2024		X				X					X	X															X				
BH-16 (4.0')	1/22/2024		X				X					X	X															X				
BH-17 (4.0')	1/22/2024		X				X					X	X															X				
BH-18 (2.5')	1/22/2024		X				X					X	X															X				
BH-19 (2.5')	1/22/2024		X				X					X	X															X				
BH-20 (2.5')	1/22/2024		X				X					X	X															X				

Date: 1/24/24 Time: 14:06	Received by: [Signature]	Date: 1/24/24 Time: 14:08
Date: Time:	Received by:	Date: Time:
Date: Time:	Received by:	Date: Time:

LAB USE ONLY	REMARKS:
	<input checked="" type="checkbox"/> Standard TAT
	<input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr
	<input type="checkbox"/> Rush Charges Authorized
Sample Temperature: 55°C	<input type="checkbox"/> Special Report Limits or TRRP Report

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Tetra Tech, Inc.

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

JR Oil	Site Manager: Brittany Long
MLMUI Satellite No,2	brittany.long@tetrattech.com
on: Lea County, NM	Project #: 212C-MD-03133
oratory: ATTN: JR Oil Rex Tippy	Sampler Signature: Miguel Flores
Eurofins Xenco	

ANALYSIS REQUEST (Circle or Specify Method No.)

SAMPLE IDENTIFICATION			SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8021B	BTEX 8021B	TPH TX1005 (Ext to C	TPH 8015M (GRO - D	PAH 8270C	Total Metals Ag As Ba	TCLP Metals Ag As Ba	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 62	GC/MS Semi. Vol. 827	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride	Sulfate	General Water Chemis	Anion/Cation Balance
			YEAR: 2024		WATER	SOIL	HCL	HNO ₃	ICE	None																							
			DATE	TIME																													
BH-21 (2.5')	1/22/2024		X				X					X	X																X				
BH-22 (2.5')	1/22/2024		X				X					X	X																X				
BH-23 (1.5')	1/22/2024		X				X					X	X																X				
BH-24 (1.5')	1/22/2024		X				X					X	X																X				
BH-25 (1.5')	1/22/2024		X				X					X	X																X				
BH-26 (1.5')	1/22/2024		X				X					X	X																X				
BH-27 (1.5')	1/22/2024		X				X					X	X																X				
BH-28 (1.5')	1/22/2024		X				X					X	X																X				
BH-29 (1.5')	1/22/2024		X				X					X	X																X				
SW-1	1/22/2024		X				X					X	X																X				

Date: 1/21/24 1407	Received by: [Signature]	Date: 1/21/24 14:05
Date:	Received by:	Date:
Date:	Received by:	Date:

LAB USE ONLY

Sample Temperature 55°C

#140

REMARKS:

☒ Standard TAT

☐ RUSH: Same Day 24 hr 48 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

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Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

JR Oil	Site Manager: Brittany Long
MLMUI Satellite No,2	brittany.long@tetrattech.com
on: Lea County, NM	Project #: 212C-MD-03133
ATTN: JR Oil Rex Tippy	
oratory: Eurofins Xenco	Sampler Signature: Miguel Flores

ANALYSIS REQUEST (Circle or Specify Method No.)

SAMPLE IDENTIFICATION			SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX	BTEX 8021B	BTEX	TPH TX1005 (Ext to C to C	TPH 8015M (GRO - D	PAH 8270C	Total Metals Ag As Ba	TCLP Metals Ag As Ba	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 62	GC/MS Semi. Vol. 8277	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride	Sulfate	General Water Chemis	Anion/Cation Balance
			YEAR: 2024		WATER	SOIL	HCL	HNO ₃	ICE	None																							
			DATE	TIME																													
SW-2	1/22/2024			X				X					X	X														X					
SW-3	1/22/2024			X				X					X	X														X					
SW-4	1/22/2024			X				X					X	X														X					
SW-5	1/22/2024			X				X					X	X														X					
SW-6	1/22/2024			X				X					X	X														X					
SW-7	1/22/2024			X				X					X	X														X					
SW-8	1/22/2024			X				X					X	X														X					
SW-12	1/22/2024			X				X					X	X														X					
SW-13	1/22/2024			X				X					X	X														X					
SW-14	1/22/2024			X				X					X	X														X					

Date: 1/24/24 Time: 1407	Received by: [Signature] Date: 1/24/24 Time: 14:08
Date: Time:	Received by: Date: Time:
Date: Time:	Received by: Date: Time:

LAB USE ONLY

Sample Temperature 5.5°C

#1410

REMARKS:
☐ Standard TAT
☐ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

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Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB USE ONLY

Sample Temperature

15.5°C

4140

REMARKS:

☐ Standard TAT☐ **RUSH:** Same Day 24 hr 48 hr 72 hr☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/26/2024 12:31:13 PM

JOB DESCRIPTION

MLMUI Satellite No 2
Lea County NM

JOB NUMBER

890-6198-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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2/26/2024 12:31:13 PM

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

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No 2

Laboratory Job ID: 890-6198-1
SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No 2

Job ID: 890-6198-1
SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Tetra Tech, Inc.
Project: MLMUI Satellite No 2

Job ID: 890-6198-1

Job ID: 890-6198-1

Eurofins Carlsbad

Job Narrative 890-6198-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 2/15/2024 1:42 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.0°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SW - 19 (890-6198-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-73802 and analytical batch 880-73977 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (MB 880-73802/5-A) and (MB 880-73934/5-A). Evidence of matrix interferences is not obvious.

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.

HPLC/IC

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

Eurofins Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No 2

Job ID: 890-6198-1
SDG: Lea County NM

Client Sample ID: SW - 19

Lab Sample ID: 890-6198-1

Date Collected: 02/12/24 00:00

Matrix: Solid

Date Received: 02/15/24 13:42

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/24 15:27	02/25/24 03:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/24 15:27	02/25/24 03:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/24 15:27	02/25/24 03:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/24 15:27	02/25/24 03:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/24 15:27	02/25/24 03:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/24 15:27	02/25/24 03:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	02/21/24 15:27	02/25/24 03:28	1
1,4-Difluorobenzene (Surr)	90		70 - 130	02/21/24 15:27	02/25/24 03:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/25/24 03:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.4		50.3		mg/Kg			02/20/24 10:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		02/19/24 15:17	02/20/24 10:47	1
Diesel Range Organics (Over C10-C28)	60.4		50.3		mg/Kg		02/19/24 15:17	02/20/24 10:47	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		02/19/24 15:17	02/20/24 10:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	02/19/24 15:17	02/20/24 10:47	1
o-Terphenyl	114		70 - 130	02/19/24 15:17	02/20/24 10:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		4.98		mg/Kg			02/20/24 15:00	1

Eurofins Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No 2

Job ID: 890-6198-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-6198-1	SW - 19	90	90
890-6208-A-21-E MS	Matrix Spike	100	109
890-6208-A-21-F MSD	Matrix Spike Duplicate	98	111
LCS 880-73802/1-A	Lab Control Sample	108	112
LCSD 880-73802/2-A	Lab Control Sample Dup	110	120
MB 880-73802/5-A	Method Blank	68 S1-	100
MB 880-73934/5-A	Method Blank	67 S1-	106
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-6198-1	SW - 19	123	114
890-6198-1 MS	SW - 19	119	98
890-6198-1 MSD	SW - 19	117	91
LCS 880-73547/2-A	Lab Control Sample	122	129
LCSD 880-73547/3-A	Lab Control Sample Dup	110	108
MB 880-73547/1-A	Method Blank	130	117
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No 2

Job ID: 890-6198-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73802/5-A

Matrix: Solid

Analysis Batch: 73977

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/24 15:27	02/25/24 00:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/24 15:27	02/25/24 00:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/24 15:27	02/25/24 00:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/21/24 15:27	02/25/24 00:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/24 15:27	02/25/24 00:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/21/24 15:27	02/25/24 00:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	02/21/24 15:27	02/25/24 00:21	1
1,4-Difluorobenzene (Surr)	100		70 - 130	02/21/24 15:27	02/25/24 00:21	1

Lab Sample ID: LCS 880-73802/1-A

Matrix: Solid

Analysis Batch: 73977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09199		mg/Kg		92	70 - 130
Toluene	0.100	0.07926		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.08616		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1798		mg/Kg		90	70 - 130
o-Xylene	0.100	0.09995		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-73802/2-A

Matrix: Solid

Analysis Batch: 73977

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73802

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09733		mg/Kg		97	70 - 130	6	35
Toluene	0.100	0.09044		mg/Kg		90	70 - 130	13	35
Ethylbenzene	0.100	0.09546		mg/Kg		95	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1997		mg/Kg		100	70 - 130	11	35
o-Xylene	0.100	0.1051		mg/Kg		105	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

Lab Sample ID: 890-6208-A-21-E MS

Matrix: Solid

Analysis Batch: 73977

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 73802

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.101	0.05346	F1	mg/Kg		53	70 - 130
Toluene	<0.00199	U F2 F1	0.101	0.04211	F1	mg/Kg		42	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No 2

Job ID: 890-6198-1
SDG: Lea County NM

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

Lab Sample ID: 890-6208-A-21-E MS

Matrix: Solid

Analysis Batch: 73977

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 73802

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U F1	0.101	0.05338	F1	mg/Kg		53	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1094	F1	mg/Kg		54	70 - 130
o-Xylene	<0.00199	U F1	0.101	0.05727	F1	mg/Kg		57	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-6208-A-21-F MSD

Matrix: Solid

Analysis Batch: 73977

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 73802

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	0.06937	F1	mg/Kg		69	70 - 130	26	35
Toluene	<0.00199	U F2 F1	0.100	0.06657	F2 F1	mg/Kg		67	70 - 130	45	35
Ethylbenzene	<0.00199	U F1	0.100	0.06720	F1	mg/Kg		67	70 - 130	23	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1375	F1	mg/Kg		69	70 - 130	23	35
o-Xylene	<0.00199	U F1	0.100	0.06853	F1	mg/Kg		69	70 - 130	18	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: MB 880-73934/5-A

Matrix: Solid

Analysis Batch: 73977

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73934

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 13:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 13:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 13:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/23/24 14:05	02/24/24 13:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/23/24 14:05	02/24/24 13:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/23/24 14:05	02/24/24 13:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	02/23/24 14:05	02/24/24 13:35	1
1,4-Difluorobenzene (Surr)	106		70 - 130	02/23/24 14:05	02/24/24 13:35	1

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

Lab Sample ID: MB 880-73547/1-A

Matrix: Solid

Analysis Batch: 73598

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/19/24 15:17	02/20/24 08:02	1

Eurofins Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No 2

Job ID: 890-6198-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-73547/1-A

Matrix: Solid

Analysis Batch: 73598

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/19/24 15:17	02/20/24 08:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/24 15:17	02/20/24 08:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				02/19/24 15:17	02/20/24 08:02	1
o-Terphenyl	117		70 - 130				02/19/24 15:17	02/20/24 08:02	1

Lab Sample ID: LCS 880-73547/2-A

Matrix: Solid

Analysis Batch: 73598

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1030		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1035		mg/Kg		104	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	122		70 - 130				
o-Terphenyl	129		70 - 130				

Lab Sample ID: LCSD 880-73547/3-A

Matrix: Solid

Analysis Batch: 73598

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 73547

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	955.9		mg/Kg		96	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	950.5		mg/Kg		95	70 - 130	9	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	110		70 - 130						
o-Terphenyl	108		70 - 130						

Lab Sample ID: 890-6198-1 MS

Matrix: Solid

Analysis Batch: 73598

Client Sample ID: SW - 19

Prep Type: Total/NA

Prep Batch: 73547

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1010	1085		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	60.4		1010	1058		mg/Kg		99	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	119		70 - 130						
o-Terphenyl	98		70 - 130						

Eurofins Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No 2

Job ID: 890-6198-1
SDG: Lea County NM

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

Lab Sample ID: 890-6198-1 MSD

Matrix: Solid

Analysis Batch: 73598

Client Sample ID: SW - 19

Prep Type: Total/NA

Prep Batch: 73547

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1010	1102		mg/Kg		107	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	60.4		1010	997.3		mg/Kg		93	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	117		70 - 130								
o-Terphenyl	91		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73329/1-A

Matrix: Solid

Analysis Batch: 73631

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/20/24 13:04	1

Lab Sample ID: LCS 880-73329/2-A

Matrix: Solid

Analysis Batch: 73631

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.4		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-73329/3-A

Matrix: Solid

Analysis Batch: 73631

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	258.9		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-6189-A-1-B MS

Matrix: Solid

Analysis Batch: 73631

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	144		250	404.2		mg/Kg		104	90 - 110

Lab Sample ID: 890-6189-A-1-C MSD

Matrix: Solid

Analysis Batch: 73631

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	144		250	412.5		mg/Kg		108	90 - 110	2	20

Eurofins Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No 2

Job ID: 890-6198-1
SDG: Lea County NM

GC VOA

Prep Batch: 73802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6198-1	SW - 19	Total/NA	Solid	5035	
MB 880-73802/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73802/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73802/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6208-A-21-E MS	Matrix Spike	Total/NA	Solid	5035	
890-6208-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 73934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-73934/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 73977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6198-1	SW - 19	Total/NA	Solid	8021B	73802
MB 880-73802/5-A	Method Blank	Total/NA	Solid	8021B	73802
MB 880-73934/5-A	Method Blank	Total/NA	Solid	8021B	73934
LCS 880-73802/1-A	Lab Control Sample	Total/NA	Solid	8021B	73802
LCSD 880-73802/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73802
890-6208-A-21-E MS	Matrix Spike	Total/NA	Solid	8021B	73802
890-6208-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	73802

Analysis Batch: 74035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6198-1	SW - 19	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 73547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6198-1	SW - 19	Total/NA	Solid	8015NM Prep	
MB 880-73547/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73547/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73547/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6198-1 MS	SW - 19	Total/NA	Solid	8015NM Prep	
890-6198-1 MSD	SW - 19	Total/NA	Solid	8015NM Prep	

Analysis Batch: 73598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6198-1	SW - 19	Total/NA	Solid	8015B NM	73547
MB 880-73547/1-A	Method Blank	Total/NA	Solid	8015B NM	73547
LCS 880-73547/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73547
LCSD 880-73547/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73547
890-6198-1 MS	SW - 19	Total/NA	Solid	8015B NM	73547
890-6198-1 MSD	SW - 19	Total/NA	Solid	8015B NM	73547

Analysis Batch: 73759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6198-1	SW - 19	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No 2

Job ID: 890-6198-1
SDG: Lea County NM

HPLC/IC

Leach Batch: 73329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6198-1	SW - 19	Soluble	Solid	DI Leach	
MB 880-73329/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73329/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73329/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6189-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-6189-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 73631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6198-1	SW - 19	Soluble	Solid	300.0	73329
MB 880-73329/1-A	Method Blank	Soluble	Solid	300.0	73329
LCS 880-73329/2-A	Lab Control Sample	Soluble	Solid	300.0	73329
LCSD 880-73329/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73329
890-6189-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	73329
890-6189-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	73329

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No 2

Job ID: 890-6198-1
SDG: Lea County NM

Client Sample ID: SW - 19
Date Collected: 02/12/24 00:00
Date Received: 02/15/24 13:42

Lab Sample ID: 890-6198-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73802	02/21/24 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73977	02/25/24 03:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74035	02/25/24 03:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			73759	02/20/24 10:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	73547	02/19/24 15:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73598	02/20/24 10:47	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	73329	02/16/24 09:30	SA	EET MID
Soluble	Analysis	300.0		1			73631	02/20/24 15:00	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No 2

Job ID: 890-6198-1
SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No 2

Job ID: 890-6198-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: MLMUI Satellite No 2

Job ID: 890-6198-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6198-1	SW - 19	Solid	02/12/24 00:00	02/15/24 13:42

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946



890-6198 Chain of Custody

Page 1 of 1

Client Name:	JR Oil	Site Manager:	Brittany Long
Project Name:	MLMUI Satellite No,2 brittany.long@tetratech.com		
Project Location: (county, state)	Lea County, NM	Project #:	212C-MD-03133
Invoice to:	ATTN: JR Oil Rex Tippy		
Receiving Laboratory:	Eurofins Xenco	Sampler Signature:	Miguel Flores

Comments:

[illegible]

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Miguel A Flores	2/15/24	1340	[Signature]	2/15	1340
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

ANALYSIS REQUEST
(Circle or Specify Method No.)

[illegible]

<div style="border: 1px solid black; padding: 5px;"> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> LAB USE ONLY </div> <div style="border: 1px solid black; padding: 2px;"> Sample Temperature <div style="font-size: 2em; margin-top: 10px;">-2.2</div> </div> </div>	REMARKS: <input checked="" type="checkbox"/> Standard TAT
	<input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr
	<input type="checkbox"/> Rush Charges Authorized
	<input type="checkbox"/> Special Report Limits or TARP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-6198-1

SDG Number: Lea County NM

Login Number: 6198

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
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	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-6198-1

SDG Number: Lea County NM

Login Number: 6198

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 02/19/24 08:27 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



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

March 26, 2024

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MLMU SATELLITE #2

Enclosed are the results of analyses for samples received by the laboratory on 03/22/24 8:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/22/2024
Reported: 03/26/2024
Project Name: MLMU SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 03/21/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 5 (H241502-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2024	ND	2.11	105	2.00	1.16	GC-NC
Toluene*	<0.050	0.050	03/22/2024	ND	2.07	103	2.00	1.14	
Ethylbenzene*	<0.050	0.050	03/22/2024	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	03/22/2024	ND	5.91	98.5	6.00	1.05	
Total BTX	<0.300	0.300	03/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/25/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	175	87.5	200	1.61	
DRO >C10-C28*	26.2	10.0	03/22/2024	ND	169	84.5	200	0.931	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/22/2024
Reported: 03/26/2024
Project Name: MLMU SATELLITE #2
Project Number: 212C-MD-03133
Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 03/21/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 9 (H241502-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2024	ND	2.11	105	2.00	1.16	
Toluene*	<0.050	0.050	03/22/2024	ND	2.07	103	2.00	1.14	
Ethylbenzene*	<0.050	0.050	03/22/2024	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	03/22/2024	ND	5.91	98.5	6.00	1.05	
Total BTEX	<0.300	0.300	03/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	03/25/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2024	ND	197	98.7	200	1.61	
DRO >C10-C28*	28.7	10.0	03/25/2024	ND	208	104	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	03/25/2024	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/22/2024
 Reported: 03/26/2024
 Project Name: MLMU SATELLITE #2
 Project Number: 212C-MD-03133
 Project Location: JR OIL - LEA COUNTY, NM

Sampling Date: 03/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 10 (H241502-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2024	ND	2.11	105	2.00	1.16	
Toluene*	<0.050	0.050	03/22/2024	ND	2.07	103	2.00	1.14	
Ethylbenzene*	<0.050	0.050	03/22/2024	ND	2.03	101	2.00	1.18	
Total Xylenes*	<0.150	0.150	03/22/2024	ND	5.91	98.5	6.00	1.05	
Total BTEX	<0.300	0.300	03/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/25/2024	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2024	ND	197	98.7	200	1.61	
DRO >C10-C28*	43.4	10.0	03/25/2024	ND	208	104	200	1.66	
EXT DRO >C28-C36	13.5	10.0	03/25/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



Tetra Tech, Inc.

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

Client Name:	JR Oil	Site Manager:	Brittany Long
Project Name:	MLMU Satellite 2		432-741-5813 Brittany.long@tetratech.com
Project Location: (county, state)	Lea County, NM	Project #:	212C-MD-03133
Invoice to:	ATTN: ATTN: Tetra tech Inc.		
Receiving Laboratory:	Cardinal Labs	Sampler Signature:	Jorge Fernandez
Comments:			

[illegible][illegible]

Relinquished by:	Date:	Time:	0845
<i>[Signature]</i>	3-22-24		<i>[Signature]</i>
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

LAB USE
ONLY

Sample Temperature

 0.7e

#140

REMARKS:	Standard TAT
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☒ **RUSH:** Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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April 05, 2024

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MLMU SATELLITE #2

Enclosed are the results of analyses for samples received by the laboratory on 04/01/24 8:59.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/01/2024	Sampling Date:	03/29/2024
Reported:	04/05/2024	Sampling Type:	Soil
Project Name:	MLMU SATELLITE #2	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03133	Sample Received By:	Tamara Oldaker
Project Location:	JR OIL - LEA COUNTY, NM		

Sample ID: SW - 9 (H241656-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2024	ND	2.02	101	2.00	8.02		
Toluene*	<0.050	0.050	04/03/2024	ND	2.12	106	2.00	6.89		
Ethylbenzene*	<0.050	0.050	04/03/2024	ND	2.17	109	2.00	9.23		
Total Xylenes*	<0.150	0.150	04/03/2024	ND	6.80	113	6.00	12.3		
Total BTEX	<0.300	0.300	04/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	04/03/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/02/2024	ND	198	99.2	200	2.87	
DRO >C10-C28*	<10.0	10.0	04/02/2024	ND	186	93.2	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	04/02/2024	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Client Name:	JR Oil	Site Manager:	Brittany Long
Project Name:	MLMU Satellite 2		432-741-5813 Brittany.long@tetratech.com
Project Location: (county, state)	Lea County, NM	Project #:	212C-MD-03133
Invoice to:	ATTN: Tetra tech Inc.		
Receiving Laboratory:	Cardinal Labs	Sampler Signature:	Jorge Fernandez
Comments:			

Comments:	
-----------	--

Relinquished by:	Date:	Time:	859
Relinquished by:	Date:	Time:	0859
Relinquished by:	Date:	Time:	
Relinquished by:	Date:	Time:	

#140

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

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

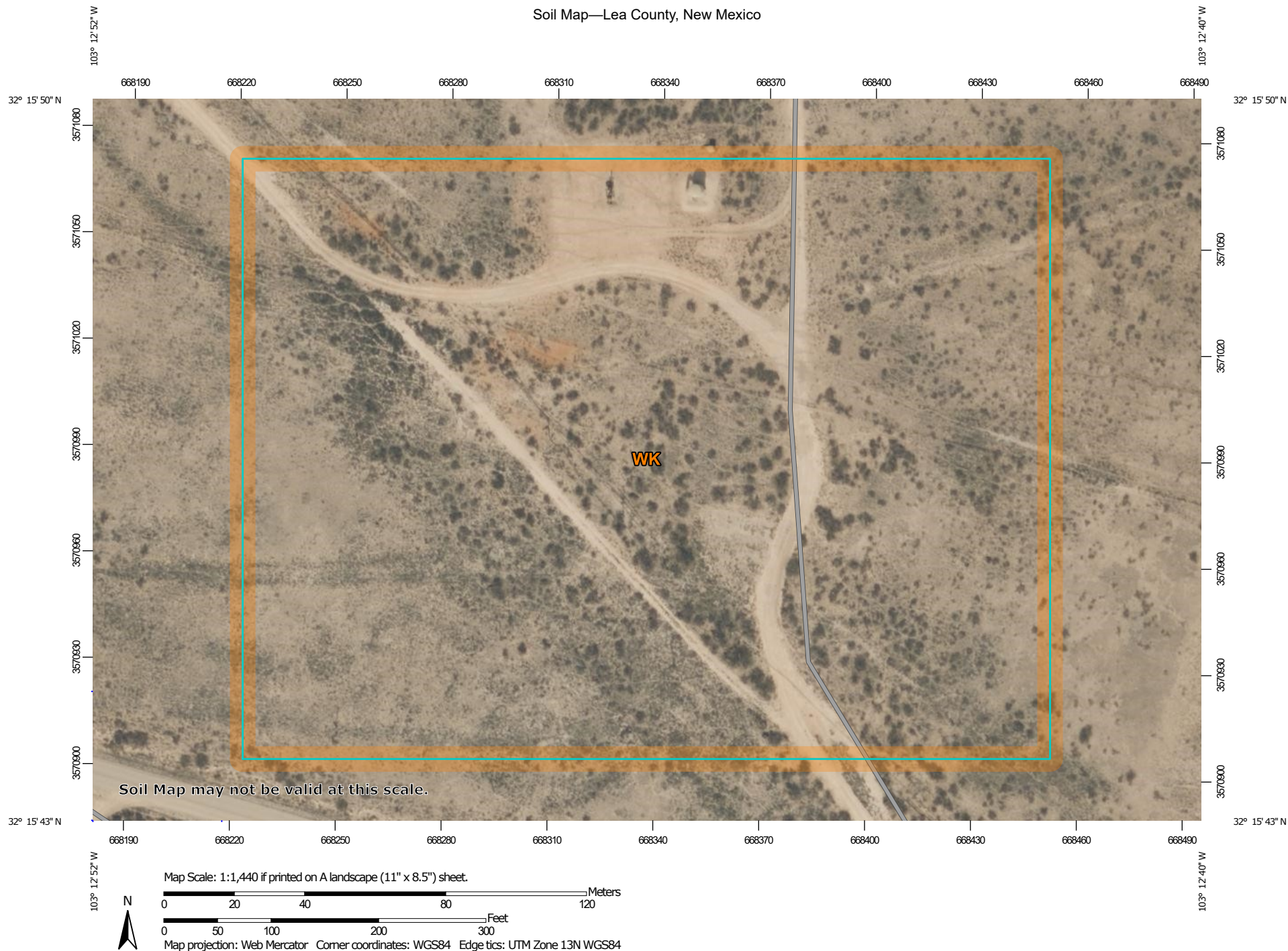
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Appendix D

Soil Survey Data

Soil Map—Lea County, New Mexico



Natural Resources
Conservation Service


Web Soil Survey
National Cooperative Soil Survey

8/13/2024
Page 1 of 3

Soil Map—Lea County, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
WK	Wink loamy fine sand	9.6	100.0%
Totals for Area of Interest		9.6	100.0%

Map Unit Description: Wink loamy fine sand---Lea County, New Mexico

Lea County, New Mexico

WK—Wink loamy fine sand

Map Unit Setting

National map unit symbol: dmmr

Elevation: 3,000 to 3,400 feet

Mean annual precipitation: 10 to 15 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Wink and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wink

Setting

Landform: Depressions

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Dip

Down-slope shape: Concave

Across-slope shape: Concave

Parent material: Calcareous sandy alluvium and/or calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 12 inches: loamy fine sand

Bk - 12 to 23 inches: sandy loam

BCK - 23 to 60 inches: sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High
(2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 30 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 4.2 inches)

Map Unit Description: Wink loamy fine sand---Lea County, New Mexico

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Minor Components**Berino**

Percent of map unit: 5 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Midessa

Percent of map unit: 4 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Jal

Percent of map unit: 4 percent

Ecological site: R070BC030NM - Limy

Hydric soil rating: No

Cacique

Percent of map unit: 2 percent

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023



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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 432314

QUESTIONS

Operator: J R OIL, LTD. CO. P.O. Box 53657 Lubbock, TX 79453	OGRID: 256073
	Action Number: 432314
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2128751635
Incident Name	NAPP2128751635 MYERS LANGLEIE MATRIX UNIT #2 @ 0
Incident Type	Other
Incident Status	Remediation Closure Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	MYERS LANGLEIE MATRIX UNIT #2
Date Release Discovered	09/30/2021
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

Incident Type	Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	Cause: High Line Pressure Other (Specify) Crude Oil Released: 10 BBL Recovered: 10 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: High Line Pressure Other (Specify) Produced Water Released: 240 BBL Recovered: 240 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Trunk line plugged off causing an overpressure event.

Sante Fe Main Office
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QUESTIONS, Page 2

Action 432314

QUESTIONS (continued)

Operator: J R OIL, LTD. CO. P.O. Box 53657 Lubbock, TX 79453	OGRID: 256073
	Action Number: 432314
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Brittany Long Title: Consultant Email: brittany.long@tetrattech.com Date: 02/14/2025
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QUESTIONS, Page 3

Action 432314

QUESTIONS (continued)

Operator: J R OIL, LTD. CO. P.O. Box 53657 Lubbock, TX 79453	OGRID:
	256073
	Action Number:
	432314
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1720
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1736
GRO+DRO (EPA SW-846 Method 8015M)	1470
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	01/11/2024
On what date will (or did) the final sampling or liner inspection occur	01/22/2024
On what date will (or was) the remediation complete(d)	03/29/2024
What is the estimated surface area (in square feet) that will be reclaimed	7170
What is the estimated volume (in cubic yards) that will be reclaimed	977
What is the estimated surface area (in square feet) that will be remediated	7170
What is the estimated volume (in cubic yards) that will be remediated	977
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 432314

QUESTIONS (continued)

Operator: J R OIL, LTD. CO. P.O. Box 53657 Lubbock, TX 79453	OGRID: 256073
	Action Number: 432314
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	J&L LANDFARM [FEEM0112339187]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Long Title: Consultant Email: brittany.long@tetrattech.com Date: 02/14/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 432314

QUESTIONS (continued)

Operator: J R OIL, LTD. CO. P.O. Box 53657 Lubbock, TX 79453	OGRID: 256073
	Action Number: 432314
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 432314

QUESTIONS (continued)

Operator: J R OIL, LTD. CO. P.O. Box 53657 Lubbock, TX 79453	OGRID: 256073
	Action Number: 432314
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	327421
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/29/2024
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	7170
What was the total volume (cubic yards) remediated	977
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	7170
What was the total volume (in cubic yards) reclaimed	977
Summarize any additional remediation activities not included by answers (above)	No additional details

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Brittany Long Title: Consultant Email: brittany.long@tetrattech.com Date: 02/14/2025
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QUESTIONS, Page 7

Action 432314

QUESTIONS (continued)

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 432314

CONDITIONS

Operator: J R OIL, LTD. CO. P.O. Box 53657 Lubbock, TX 79453	OGRID: 256073
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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	5/30/2025