SITE INFORMATION

Report Type: Closure Report (2RP-756)

General Site Information:						
Site:	**Melson ZS Federal #1**					
Company:	**EOG Resources**					
Section, Township and Range	**Unit P**	**Sec. 8**	**T 26S**	**R 30E**		
County:	**Eddy County, NM**					
GPS:	**32.05092**			**-103.897047**		
Surface Owner:	**Federal**					

Release Data:	
Date Released:	8/30/2009
Type Release:	Produced Water
Source of Contamination:	Water Tank overflow
Fluid Released:	30 bbls. of Produced Water
Fluids Recovered:	5 bbls. of Produced Water

Official Communication:			
Name:	James Kennedy		Clair Gonzales
Company:	EOG Resources		Tetra Tech
Address:	5509 Champions Dr		901 West Wall Street
			Suite 100
City:	Midland, TX 79706		Midland, Texas 79701
Phone number:	432-686-7016		432-687-8634
Fax:			
Email:	James.Kennedy@eogresources.com		clair.gonzales@tetratech.com

Site Characterization	
Depth to Groundwater:	*>55' below ground surface (bgs)*
Karst Potential:	*Medium*

Recommended Remedial Action Levels (RRALs)			
Benzene	***Total BTEX***	***TPH (GRO+DRO+MRO)***	***Chlorides***
10 mg/kg	*50 mg/kg*	*2,500 mg/kg*	*10,000 mg/kg*

TETRA TECH

November 3, 2021

Bradford Billings
Hydrologist
District 2 Artesia
Oil Conservation Division
Santa Fe, NM 87505

Re: Closure Report
EOG Resources
Melson ZS Federal #1
Unit P, Section 8, Township 26 South, Range 30 East
Eddy County, New Mexico
2RP-756
Incident Id: nKMW1111140111

Mr. Billings:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess a release at the EOG Melson ZS Federal #1 (API No. 30-015-38665). The release footprint is located in the Public Land Survey System (PLSS) Unit P, Section 8, Township 26 South, Range 30 East, Eddy County, New Mexico (Site). The Site coordinates are 32.050919º, -103.897047º. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the release occurred on August 30, 2009 as a result of the water pump at the battery being stolen causing the water tank to overflow. The release consisted of 30 barrels (bbls.) of produced water affecting an approximate area of 60' x 10' inside bermed battery. During immediate response, a vacuum truck recovered 5 bbls. of free fluids. The initial C-141 report was submitted on September 09, 2009 to the New Mexico Oil Conservation District (NMOCD). The release was subsequently assigned the Remediation Permit (RP) number 2RP-756. The C-141 forms are included in Appendix A.

Site Characterization

A site characterization was performed for the site, and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances, and the site is in a medium karst potential area. The nearest well is listed in the USGS National Water Information Database website in Section 5, approximately 1.7 miles northeast of the site, and has a reported depth to groundwater of 179.70 feet (ft.) below ground surface (bgs.), the well was last sampled in 1998. In addition, according to the New Mexico Office of the State Engineer, there are no water wells within 800 meters (½ miles) radius. However, there are five (5) water wells located within 2,400 meters (approximately 1.5 miles) of the Site. On September 7, 2021 a groundwater determination

Tetra Tech
901 West Wall Street, Suite 100, Midland, TX 79701
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

borehole was drilled at the site at a depth of 56 ft. bgs. with no evidence of water. Site characterization data is included in Appendix B.

Regulatory

A risk-based evaluation was performed for the site per the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine 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 on the site characterization, the proposed RRAL for TPH is 2,500 mg/kg (GRO+DRO+MRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 10,000 mg/kg.

Initial Site Assessment

On February 23, 2010, Yates Petroleum Corporation (Yates) submitted a final report to the NMOCD requesting closure of the incident. The report mentioned the collection of soil samples performed on September 17, 2009 and subsequent remediation efforts in which soils were excavated to a depth of 18-inches. Confirmation samples from the excavation were submitted for laboratory analysis on February 18, 2009 and analytical results were included within the report along with sample diagram. The Final Report submitted by Yates is included in Appendix C.

NMOC received the final report on April 26, 2010 however the closure was not approved due to the contamination was not fully delineated.

Soil Assessment and Analytical Results

On July 16, 2021, Tetra Tech personnel were on site to evaluate and sample the release area. The formerly impacted area was identified from the description in the C-141 and the aerial imagery. Soils were field screened for salinity using an Extech EC400 ExStik and for presence of hydrocarbons using a photoionization detector (PID) to determine sampling intervals. A total of two (2) auger holes (AH-1 and AH-2) were advanced inside the release footprint to a total depth from surface to 1.5 ft. Bgs. In addition, six (6) horizontal samples (H-1 through H-6) were installed along the release footprint to a total depth from surface to 0.5 ft. bgs. A total of eight (8) samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3. Photographic documentation is included.

Referring to Table 1, sample location (AH-1) exceeded the site RRAL for chloride (10,000 mg/kg). All the additional samples analyzed were below the Site RRAL for chloride (10,000 mg/kg), TPH (2,500 mg/kg), BTEX (50 m/kg) and benzene (10 mg/kg).

TETRA TECH

Remediation Activities

Between September 17 and October 26, 2021, Tetra Tech personnel were on-site to supervise the excavation and remediation activities in order to remove the impacted soil from the release area. The impacted area was excavated to a total depth of 19.5 ft. bgs. The excavated area is shown in Figure 4. Once the excavation was completed, confirmation samples were collected every 200 sq. ft. Five (5) bottom holes (BH-1 through BH-5) and twelve (12) sidewalls (SW-1 through SW-12) were collected in the excavated area. A total of seventeen (17) samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 2.

Referring to Table 2, all the sample confirmations were below the Site RRALs for chloride (10,000 mg/kg), TPH (2,500 mg/kg) and BTEX (50 m/kg) and benzene (10 mg/kg).

The excavations were all backfilled with clean soil material. Approximately 838 cubic yards of material was transported offsite for proper disposal.

Conclusion

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

Respectfully submitted,
TETRA TECH

Paula Tocora Alonso

Paula Tocora Alonso
Environmental Engineer I
Tetra Tech, Inc

Figures

SITE LOCATION

N
W
E
S

0 2.5 5 Miles

Approximate Scale in Miles

Source: ESRI Basemap - Streets, 2021.

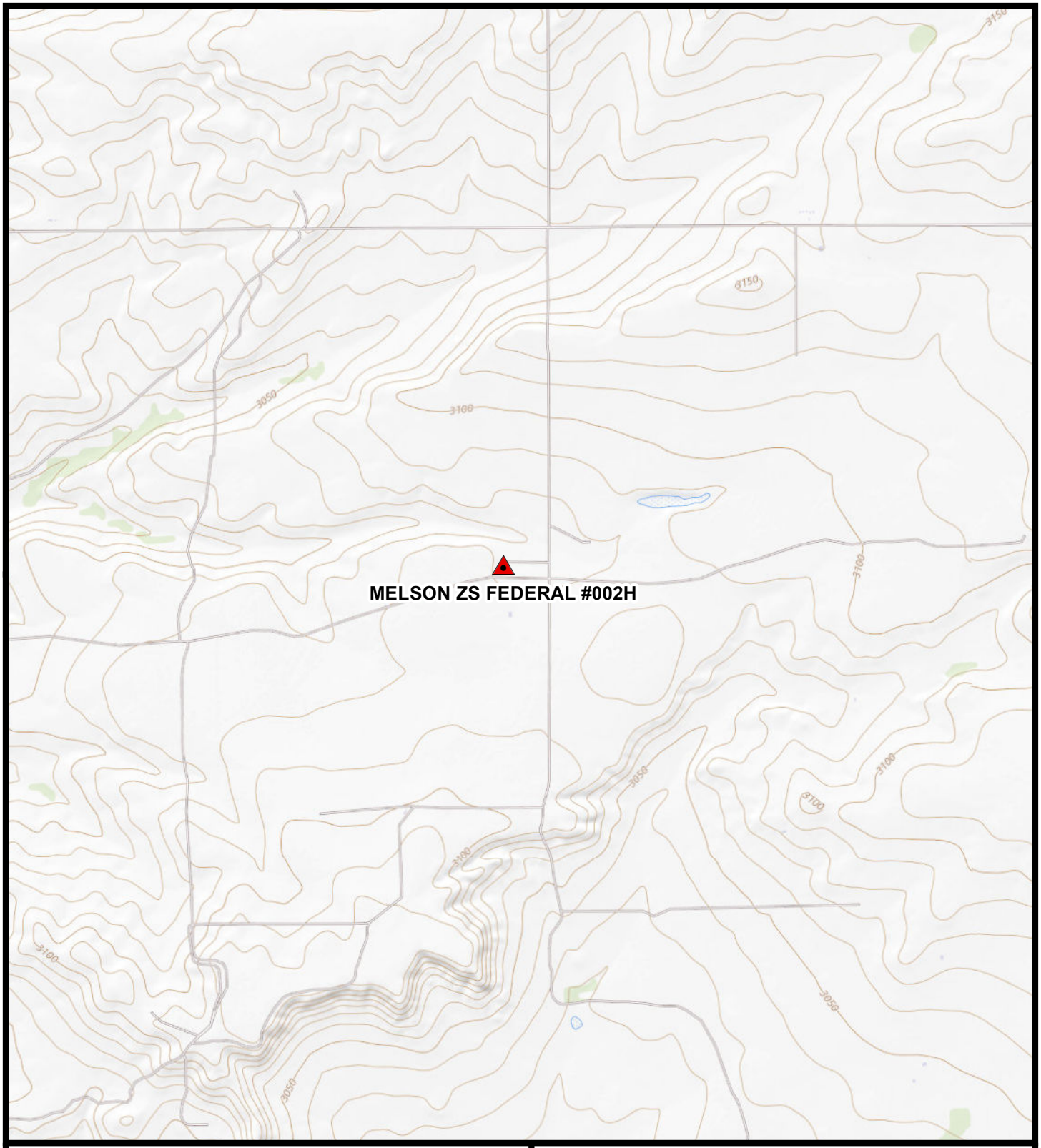
OVERVIEW MAP
MELSON ZS FEDERAL #002H
Property Located at coordinates 32.0509190°, -103.8970470°
EDDY COUNTY, NEW MEXICO

eog resources

Project #:
212C-MD-02547

FIGURE
1

C:\GIS\EOG Resources\212C-MD-02547_MELSONZS\212C-MD-02547_MELSONZS_FIG1.mxd 9/27/2021 joel.peters



SITE LOCATION

N
W
E
S

0 1,000 2,000 Feet

Approximate Scale in Feet

Source: USGS, The National Map, Topo Base, 2021.

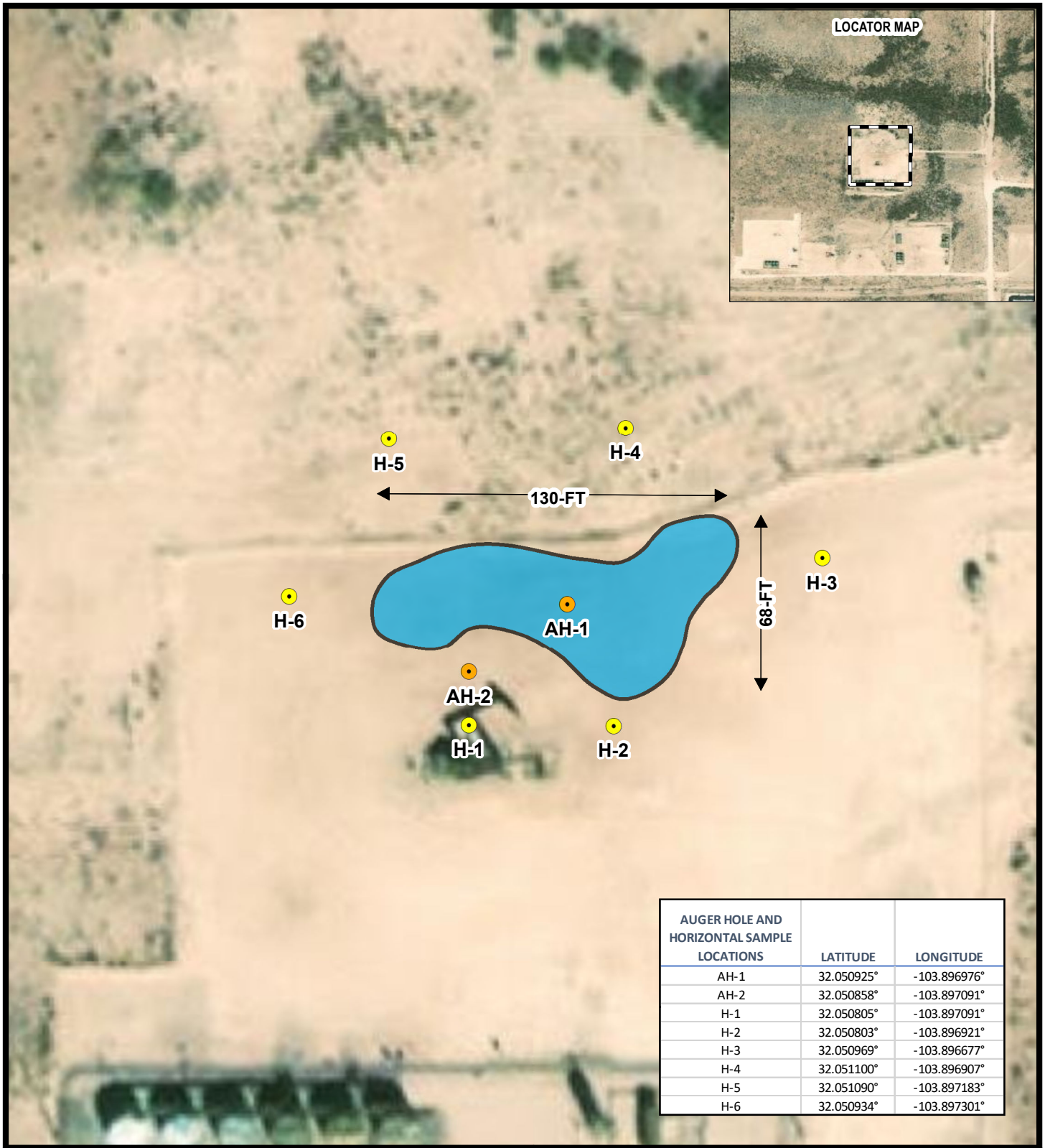
TOPOGRAPHIC MAP
MELSON ZS FEDERAL #002H
Property Located at coordinates 32.0509190°, -103.8970470°
EDDY COUNTY, NEW MEXICO

eog resources

Project #:
212C-MD-02547

FIGURE
2

C:\GIS\EOG Resources\212C-MD-02547_MELSONZS\212C-MD-02547_MELSONZS_FIG2.mxd 9/27/2021 joel.peters



AUGER HOLE AND HORIZONTAL SAMPLE LOCATIONS	LATITUDE	LONGITUDE
AH-1	32.050925°	-103.896976°
AH-2	32.050858°	-103.897091°
H-1	32.050805°	-103.897091°
H-2	32.050803°	-103.896921°
H-3	32.050969°	-103.896677°
H-4	32.051100°	-103.896907°
H-5	32.051090°	-103.897183°
H-6	32.050934°	-103.897301°

AUGER HOLE SAMPLE LOCATION

HORIZONTAL SAMPLE LOCATION

SPILL FOOTPRINT

N

W E

S

0 25 50 Feet

Approximate Scale in Feet

Source: ESRI Basemap - Imagery, 2020.

RELEASE ASSESSMENT MAP AND BORING LOCATIONS
MELSON ZS FEDERAL #002H
Property Located at coordinates 32.0509190°, -103.8970470°
EDDY COUNTY, NEW MEXICO

eog resources

Project #:
212C-MD-02547

FIGURE
3

H:\GIS\EOG RESOURCES\212C-MD-02547_MELSONZS\212C-MD-02547_MELSONZS_FIG3.mxd 11/3/2021 Isabel.Marmolejo

BH BOTTOM HOLE SAMPLE LOCATIONS

SIDEWALL DESIGNATION

19.5' EXCAVATION DEPTH

N
W
E
S

0 50 100 Feet

Approximate Scale in Feet

Source: ESRI Basemap - Imagery, 2020.

EXCAVATION ASSESSMENT MAP AND BORING LOCATIONS
MELSON ZS FEDERAL #002H
Property Located at coordinates 32.0509190°, -103.8970470°
EDDY COUNTY, NEW MEXICO

eog resources

Project #:
212C-MD-02547

FIGURE
4

H:\GIS\EOG RESOURCES\212C-MD-02547_MELSONZS\212C-MD-02547_MELSONZS_FIG4.mxd 11/3/2021 Isabel.Marmolejo

Tables

Table 1
EOG
Melson ZS Federal #002H
Eddy 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	MRO	Total						
AH-1	7/16/2021	0-0.5	X	-	<49.9	66.2	<49.9	66.2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**20,800**
	"	1-1.5	X	-	<50.0	**219**	<50.0	**219**	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**21,700**
AH-2	7/16/2021	0-0.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	347
	"	1-1.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	112
H-1	7/16/2021	0-0.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	11.5
H-2	7/16/2021	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	6.03
H-3	7/16/2021	0-0.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	6.00
H-4	7/16/2021	0-0.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	12.1
H-5	7/16/2021	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	225
H-6	7/16/2021	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	183

(-) Not Analyzed

Exceeded RRALs

Table 2
EOG
Melson ZS Federal #002H
Eddy County, NM

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample	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						
BH-1*	9/7/2021	-	0-1	-	X	<49.9	100	53.4	153	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	**9,070**
		-	2-3	-	X	<49.9	69.5	<49.9	70	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**4,160**
		-	4-5	-	X	**227**	**11,400**	2,370	**13,300**	<0.199	<0.199	0.529	1.81	2.34	3,700
		-	6-7	-	X	**101**	**4,250**	868	**5,220**	<0.201	<0.201	<0.201	<0.402	<0.402	4,770
		-	9-10	-	X	**55**	**1,390**	267	**1,710**	<0.201	<0.201	<0.201	<0.402	<0.402	8,130
		-	14-15	-	X	<49.8	211	80.1	291	<0.0994	<0.0994	<0.0994	<0.199	<0.199	**11,000**
		-	19-20	X	-	<50.0	518	95.9	614	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	6,550
		-	25	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	4,470
BH-1	9/17/2021	-	19.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	3,700
BH-2	9/20/2021	-	19.5	X	-	<50.0	630	69.5	700	<0.00200	<0.00200	0.0118	0.0762	0.0880	5,850
BTM-3	9/22/2021	-	19.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	6,560
BTM-4	9/22/2021	-	19.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	5,730
BTM-5	9/22/2021	-	19.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,480
SW-1	9/17/2021	-	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5,780
SW-2	9/17/2021	-	-	X	-	<50.0	53.1	<50.0	53.1	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	6,270
SW-3	9/21/2021	-	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	8,800
SW-4	9/20/2021	-	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	5,940
SW-5	9/20/2021	-	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	8,660
SW-6	9/20/2021	-	-	-	X	<249	**3,040**	297	**3,340**	0.00335	0.00721	0.0350	0.223	0.269	9,850
	10/4/2021	-	-	-	X	<249	**3,200**	<249	**3,200**	<0.00199	<0.00199	0.0295	0.231	0.261	5,640
	10/18/2021	-	-	-	X	<50.0	**1,190**	<50.0	**1,190**	<0.00199	<0.00199	0.0530	0.0151	0.0681	1,730
	10/26/2021	-	-	X	-	<50.0	<50.0	<50.0	<50.0	-	-	-	-	-	-
SW-7	9/20/2021	-	-	-	X	<250	**4,930**	506	**5,440**	0.00238	0.0129	0.0553	0.464	0.535	5,430
	10/4/2021	-	-	-	X	<249	**2,280**	<249	**2,280**	<0.00200	<0.00200	0.0176	0.104	0.122	3,660
	10/18/2021	-	-	X	-	<50.0	937	<50.0	937	<0.00200	<0.00200	0.0281	0.0212	0.0493	1,600
SW-8	9/20/2021	-	-	-	X	<49.9	116	<49.9	116	<0.00200	<0.00200	<0.00200	0.0151	0.0151	9,640
	10/4/2021	-	-	-	X	<249	**4,120**	<249	**4,120**	<0.00200	0.00365	0.0286	0.176	0.209	5,540
	10/18/2021	-	-	X	-	<49.9	977	<49.9	977	<0.00199	<0.00199	0.0220	0.0117	0.0337	1,690
SW-9	9/20/2021	-	-	-	X	<249	**2,700**	314	**3,010**	<0.00201	<0.00201	0.0102	0.149	0.16	**10,800**
	10/4/2021	-	-	-	X	<250	**2,100**	<250	**2,100**	<0.00199	<0.00199	0.00879	0.109	0.118	9,360
	10/18/2021	-	-	-	X	<49.9	**1,070**	<49.9	**1,070**	<0.00200	<0.00200	0.0306	0.0165	0.0471	1,690
	10/26/2021	-	-	X	-	<50.0	244	<50.0	244	-	-	-	-	-	-
SW-10	9/20/2021	-	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	7,560
SW-11	9/20/2021	-	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	8,580
SW-12	9/22/2021	-	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	5,550

(-) Not Analyzed
Excavated
* BH-1 (Borehole drilled for vertical delineation)

Photos

EOG Resources
Melson ZS Federal #002H
Eddy County, New Mexico

TETRA TECH

View of Release Area – View West

View of Release Area – View Southwest

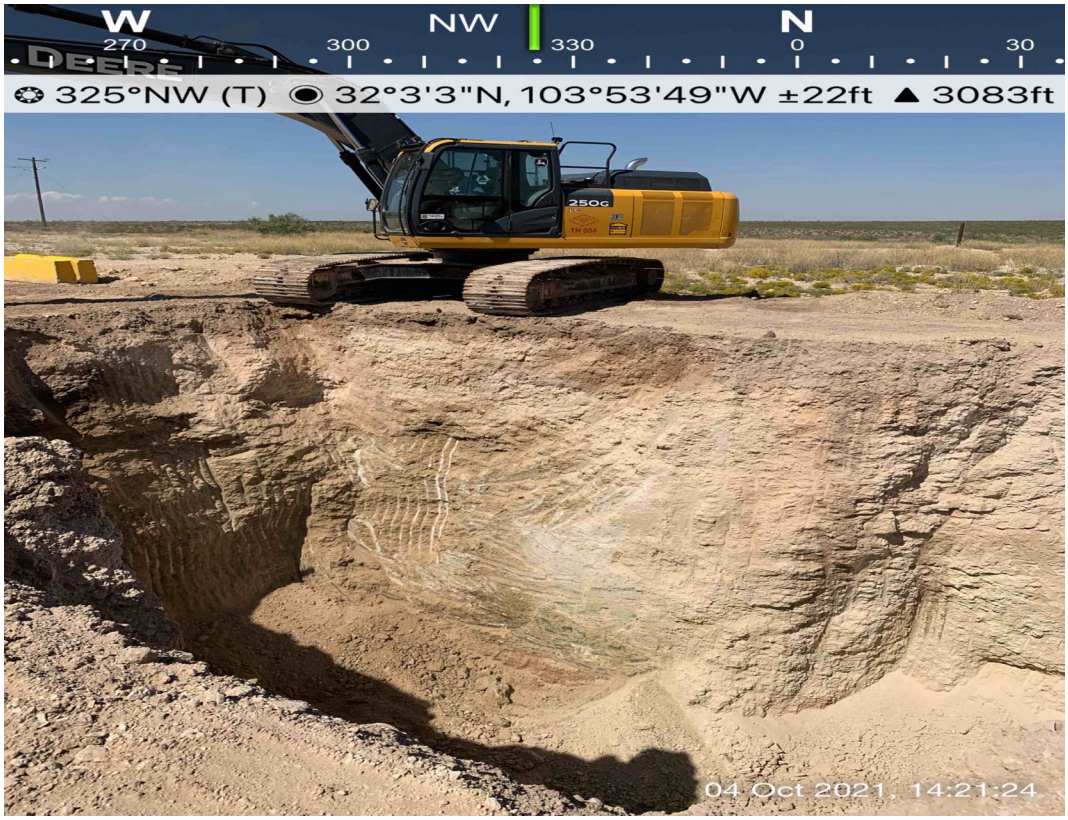
EOG Resources
Melson ZS Federal #002H
Eddy County, New Mexico

View of Remediation Activities – View South

View of Release Area – View Northwest

EOG Resources
Melson ZS Federal #002H
Eddy County, New Mexico

TETRA TECH



View of Remediation Activities – View Northwest

View of Release Area – View Southwest

Boring Log

212C-MD-02547 | TETRA TECH | **LOG OF BORING BH-1** | Page 1 of 1

Project Name: Melson ZS Federal #002H

Borehole Location: GPS Coordinates: 32.050930, -103.899006 | Surface Elevation (ft. MSL): 3074.1

Borehole Number: BH-1 | Borehole Diameter (in.): 6 | Date Started: 9/7/2021 | Date Completed: 9/7/2021

WATER LEVEL OBSERVATIONS

While Drilling ▽ NE ft Upon Completion of Drilling ▼ 56 ft

Remarks:

DEPTH (ft)	PID SCREENING ppm	ExStik SCREENING (ppm)	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
	6.6	>10,000	**-SPG-** CALICHE/SAND: Tan, Dense, Dry		See Laboratory Results Table
	1.5	>10,000			
	215	>10,000			
	355				
10	289	8,560			
	52.2	9,750			
20	65	5,120		21	
			-SM- SILTY SAND: Light Brown, Dense, Dry, Poorly Sorted		
	2.8	4,750		27	
			-SP- SAND: Dark Brown, Very Dense, Dry.	29	
30			**-SM-** SILTY SAND: Dark Brown, Very Dense, Dry.		
40					
50				56	

Sampler Types: Split Spoon, Penetrometer, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Core Barrel, Wash Rotary, Drive Casing

Notes:

Bottom of borehole at 56.0 feet.

Surface elevation is an estimated value based on Google Earth data.

Temporary Well Set. Water Measured at 32 ft. with Trace of NAPL.

Logger: Ashton Thielke | Drilling Equipment: Mobile Drill B61HDX | Driller: Scarborough Drilling

BIG CREEK RELEASE SB-3.GPJ `11.2.21`TT_AUSTIN_GEOTECH_NOWELL_2`'2015 TT TEMPLATE DECEMBER WELL.GDT' Revised 5-16-12 (RHM)

Appendix A

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

DKmw 11/11/2011

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	OGRID Number	Contact
Yates Petroleum Corporation	25575	Robert Asher
Address		Telephone No.
104 S. 4TH Street		505-748-1471
Facility Name	API Number	Facility Type
Melson ZS Federal #1	30-015-25171	Battery

Surface Owner	Mineral Owner	Lease No.
Federal	Federal	NM-31649

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	8	26S	30E	560	South	660	East	Eddy

Latitude 32.05132 **Longitude** 103.89634

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Produced Water	30 B/PW	5 B/PW
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Water Pump	8/30/2009 AM	8/30/2009 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher/NMOCD District II	
By Whom? Robert Asher/YPC Environmental	Date and Hour 9/1/2009 PM, Voicemail & E-mail	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Water pump at battery was stolen, causing water tank to overflow. Vacuum truck called.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 60' X 10' inside bermed battery, small amount outside battery. Produced water picked up. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides results for documentation, YPC will delineate to try and show decreasing levels of chlorides). If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. **Depth to Ground Water: >100' (approximately 173', per the New Mexico Office of the State Engineer), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: Robert Asher

Printed Name: Robert Asher

Title: Environmental Regulatory Agent

E-mail Address: boba@yatespetroleum.com

Date: Wednesday, September 09, 2009 Phone: 575-748-4217

* Attach Additional Sheets If Necessary

OIL CONSERVATION DIVISION

Approved by District Supervisor: Mike Bratcher

Signed By

Approval Date: 4/21/11 Expiration Date:

Conditions of Approval: Attached ☐

Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:** 5/21/11

2RP-756

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

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

RECEIVED
APR 26 2[illegible]
NMOCD ARTESIA

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	OGRID Number	Contact
Yates Petroleum Corporation	25575	Robert Asher changed to 30-015-38665
Address		Telephone No.
104 S. 4TH Street		575-748-1471
Facility Name	API Number	Facility Type
Melson ZS Federal #1 * Plugged	30-015-25171	Battery release is just North of pump Jack at

Surface Owner	Mineral Owner	Lease No.
Federal	Federal	NM-31649

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	8	26S	30E	560	South	660	East	Eddy

Latitude 32.05132 **Longitude** 103.89634

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Produced Water	30 B/PW	5 B/PW
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Water Pump	8/30/2009 AM	8/30/2009 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher/NMOCD District II	
By Whom? Robert Asher/YPC Environmental	Date and Hour 9/1/2009 PM, Voicemail & E-mail	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Water pump at battery was stolen, causing water tank to overflow. Vacuum truck called.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 60' X 10' inside bermed battery, small amount outside battery. Produced water picked up. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides results for documentation, YPC will delineate to try and show decreasing levels of chlorides). If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. Yates had a contractor excavate/haul 18" of impacted soils from both release areas (inside battery and south of battery), re-sampled on 2/18/2010, results are below RRAL's for the site ranking. **Depth to Ground Water: >100' (approximately 173', per the New Mexico Office of the State Engineer), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. Based on impacted soils excavated and enclosed analytical results, Yates Petroleum Corporation requests closure.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: Robert Asher

Printed Name: Robert Asher

Title: Environmental Regulatory Agent

E-mail Address: boba@yatespetroleum.com

Date: Tuesday, February 23, 2010 Phone: 575-748-4217

OIL CONSERVATION DIVISION

Accepted for record
NMOCD 10/14/15

Approved by District Supervisor:

Approval Date: — Expiration Date: —

Conditions of Approval:
2RP- Deferal until site abandonment. Contamination not fully delineated this facility is closed - location just north of 30-015-38665

Attached ☐

* Attach Additional Sheets If Necessary

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: James F. Kennedy Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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.

Printed Name: _____ Title: _____

Signature: James F. Kennedy Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

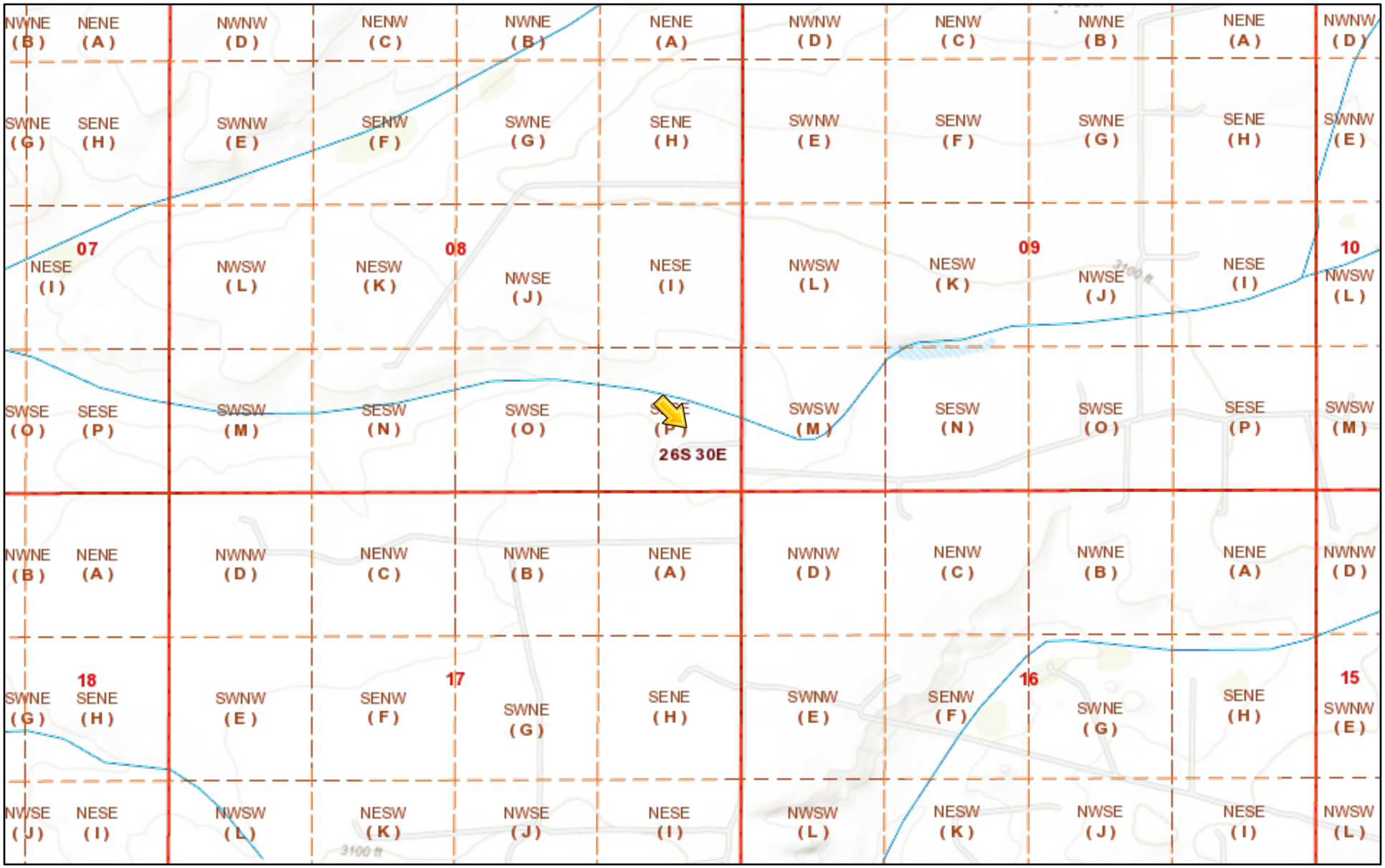
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Appendix B

2RP-756



7/14/2021, 10:19:44 AM

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

Override 1

PLSS First Division

PLSS Townships

PLJV Probable Playas

PLSS Second Division

OSE Streams

OSE Water-bodies

OCD District Offices

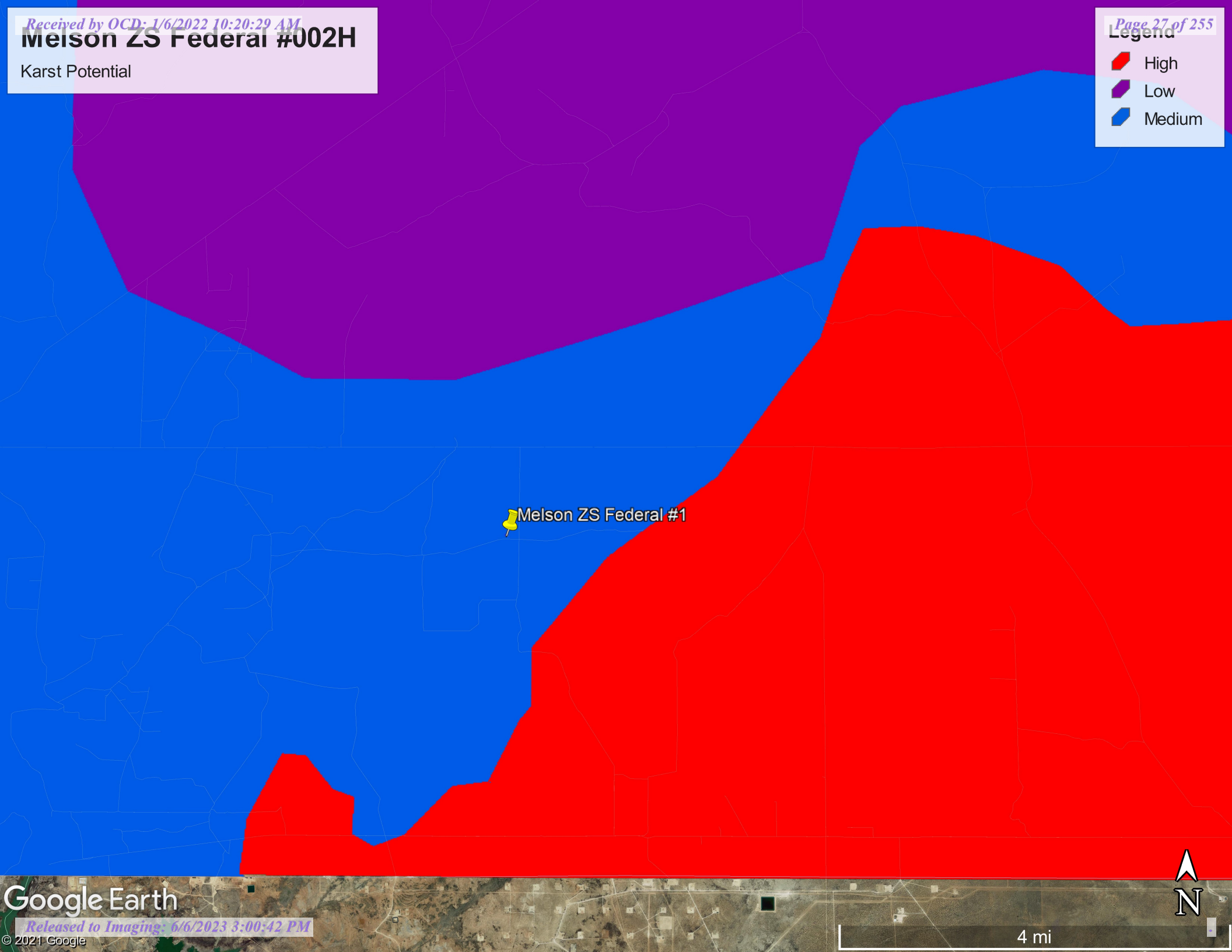
Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin,

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

Melson ZS Federal #002H

Karst Potential



New Mexico NFHL Data

July 14, 2021

1:36,112

0 0.3 0.6 1.2 mi

0 0.5 1 2 km

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

USGS science for a changing world

National Water Information System: Mapper

USGS Home
Contact USGS
Search USGS

Help Info

Site Information

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

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04068 POD1		CUB	ED	1	3	1	16	26S	30E	604397	3546018	651			
C 03483		C	ED	4	4	4	05	26S	30E	604296	3548251	1649	700	200	500
C 03581 POD1		CUB	ED	4	4	4	05	26S	30E	604298	3548291	1689	800	320	480
C 01361		CUB	ED	3	4	3	05	26S	30E	603240	3548157	1782	775	184	591
C 01360		CUB	ED	4	3	3	05	26S	30E	602997	3548152	1910	770	173	597

Average Depth to Water: **219 feet**

Minimum Depth: **173 feet**

Maximum Depth: **320 feet**

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 604125.89 **Northing (Y):** 3546611 **Radius:** 2400

7/14/21 9:13 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320404103523101

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320404103523101 26S.30E.05.343414

Eddy County, New Mexico
Latitude 32°04'04", Longitude 103°52'31" NAD27
Land-surface elevation 3,173 feet above NAVD88
The depth of the well is 775 feet below land surface.
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1958-08-18		D	62610		2989.64	NGVD29	1	Z			A
1958-08-18		D	62611		2991.25	NAVD88	1	Z			A
1958-08-18		D	72019	181.75			1	Z			A
1971-02-18		D	62610		2988.69	NGVD29	1	Z			A
1971-02-18		D	62611		2990.30	NAVD88	1	Z			A
1971-02-18		D	72019	182.70			1	Z			A
1976-01-28		D	62610		2989.67	NGVD29	1	Z			A
1976-01-28		D	62611		2991.28	NAVD88	1	Z			A
1976-01-28		D	72019	181.72			1	Z			A
1987-10-21		D	62610		2986.76	NGVD29	1	Z			A
1987-10-21		D	62611		2988.37	NAVD88	1	Z			A
1987-10-21		D	72019	184.63			1	Z			A
1992-11-05		D	62610		2991.72	NGVD29	1	S			A
1992-11-05		D	62611		2993.33	NAVD88	1	S			A
1992-11-05		D	72019	179.67			1	S			A
1998-01-28		D	62610		2991.69	NGVD29	1	S			A
1998-01-28		D	62611		2993.30	NAVD88	1	S			A
1998-01-28		D	72019	179.70			1	S			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

Appendix C

YATES PETROLEUM CORPORATION
105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1471

February 23, 2010

Mr. Mike Bratcher
NMOCD District II
1301 West Grand
Artesia, NM 88210

Re: Melson ZS Federal #1
30-015-25171
Section 8, T26S-R30E
Eddy County, New Mexico

Dear Mr. Bratcher,

Enclosed please find a Form C-141, Final Report for the above captioned site regarding the release on August 30, 2009 (30 bbls of produced water with 5 bbls produced water being recovered). The release was from a water pump being stolen, allowing stock tank to over flow. Samples were taken on 9/17/2009 and sent to an OCD approved laboratory for analysis, based on results (enclosed), impacted soils were excavated to a depth of 18 (eighteen) inches and taken to an NMOCD approved facility. Samples were taken on 2/18/2009 and sent to an OCD approved laboratory for analysis. Analytical results (enclosed) show TPH & BTEX below RRAL's for the site ranking of (0) zero, (enclosed sample diagram and results). Based on impacted soils being excavated/removed and analytical results (chlorides for documentation); Yates Petroleum Corporation requests closure. Upon closure approval Yates will backfill with clean, like soils.

If you have any questions, please call me at 575-748-4217.

Thank you.

YATES PETROLEUM CORPORATION

Robert Asher
Environmental Regulatory Agent

/rca
Enclosure(s)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

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

RECEIVED
APR 26 20
NMOCD ARTESIA

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	OGRID Number	Contact
Yates Petroleum Corporation	25575	Robert Asher
Address		Telephone No.
104 S. 4TH Street		575-748-1471
Facility Name	API Number	Facility Type
Melson ZS Federal #1	30-015-25171	Battery

Surface Owner	Mineral Owner	Lease No.
Federal	Federal	NM-31649

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	8	26S	30E	560	South	660	East	Eddy

Latitude 32.05132 **Longitude** 103.89634

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Produced Water	30 B/PW	5 B/PW
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Water Pump	8/30/2009 AM	8/30/2009 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher/NMOCD District II	
By Whom? Robert Asher/YPC Environmental	Date and Hour 9/1/2009 PM, Voicemail & E-mail	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Water pump at battery was stolen, causing water tank to overflow. Vacuum truck called.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 60' X 10' inside bermed battery, small amount outside battery. Produced water picked up. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides results for documentation, YPC will delineate to try and show decreasing levels of chlorides). If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. Yates had a contractor excavate/haul 18" of impacted soils from both release areas (inside battery and south of battery), re-sampled on 2/18/2010, results are below RRAL's for the site ranking. **Depth to Ground Water: >100' (approximately 173', per the New Mexico Office of the State Engineer), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. Based on impacted soils excavated and enclosed analytical results, Yates Petroleum Corporation requests closure.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Robert Asher	Approved by District Supervisor:	
Title: Environmental Regulatory Agent	Approval Date:	Expiration Date:
E-mail Address: boba@yatespetroleum.com	Conditions of Approval:	Attached ☐
Date: Tuesday, February 23, 2010 Phone: 575-748-4217	2RP-	

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

DKmw 11/14/2011

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	OGRID Number	Contact
Yates Petroleum Corporation	25575	Robert Asher
Address		Telephone No.
104 S. 4TH Street		505-748-1471
Facility Name	API Number	Facility Type
Melson ZS Federal #1	30-015-25171	Battery

Surface Owner	Mineral Owner	Lease No.
Federal	Federal	NM-31649

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	8	26S	30E	560	South	660	East	Eddy

Latitude 32.05132 Longitude 103.89634

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Produced Water	30 B/PW	5 B/PW
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Water Pump	8/30/2009 AM	8/30/2009 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher/NMOCD District II	
By Whom? Robert Asher/YPC Environmental	Date and Hour 9/1/2009 PM, Voicemail & E-mail	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Water pump at battery was stolen, causing water tank to overflow. Vacuum truck called.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 60' X 10' inside bermed battery, small amount outside battery. Produced water picked up. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides results for documentation, YPC will delineate to try and show decreasing levels of chlorides). If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. **Depth to Ground Water: >100' (approximately 173', per the New Mexico Office of the State Engineer), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: Robert Asher

Printed Name: Robert Asher

Title: Environmental Regulatory Agent

E-mail Address: boba@yatespetroleum.com

Date: Wednesday, September 09, 2009 Phone: 575-748-4217

* Attach Additional Sheets If Necessary

OIL CONSERVATION DIVISION

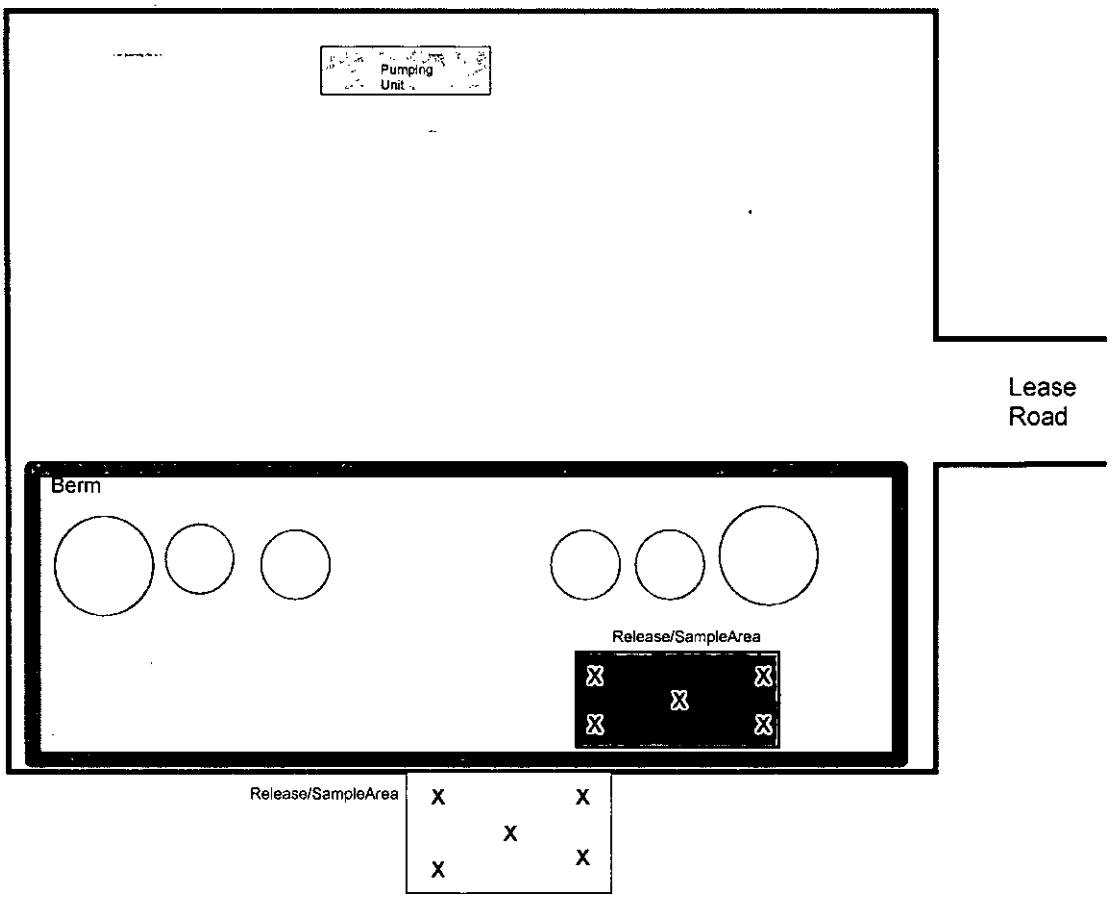
Approved by District Supervisor: Mike Bratcher
Signed By:

Approval Date: 4/21/11 Expiration Date:

Conditions of Approval:
Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:** 5/21/11

Attached ☐

2RP-756



Sample ID	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
GS/Comp-001	Battery Area	9/17/2009	Grab/Auger	4"	ND	ND	897	897	7660
GS/Comp-002	Battery Area	9/17/2009	Grab/Auger	12"	0.1158	ND	8690	8690	2920
GS/Comp-003	Battery Area	9/17/2009	Grab/Auger	18"	0.095	ND	2880	2880	5430
GS/Comp-004	Outside Battery	9/17/2009	Grab/Auger	4"	ND	ND	734	734	7020
GS/Comp-005	Outside Battery	9/17/2009	Grab/Auger	12"	ND	ND	205	205	3140
GS/Comp-006	Outside Battery	9/17/2009	Grab/Auger	18"	ND	ND	ND	ND	493
Sample ID	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
GS/Comp-001	Battery Area	2/18/2010	Grab/Auger	24" BSL	ND	ND	537	537	631
GS/Comp-002	Battery Area	2/18/2010	Grab/Auger	30" BSL	ND	ND	815	815	2410
GS/Comp-003	Outside Battery	2/18/2010	Grab/Auger	24" BSL	ND	ND	21.4	21.4	1010

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 173', per New Mexico State Engineer Office).
All results are ppm. Chloride results are for documentation. BSL - Below Subsurface Level. **X - Sample Points**

YATES PETROLEUM CORPORATION

Melson ZS Federal #1

30-015-25171

Section 8, T26S-R30E

Eddy County, NM

SAMPLE DIAGRAM (Not to Scale)
Xenco Laboratories: #345135 & 345138
Report Date: 9/23/2009
Xenco Laboratories: #362839 & 362840
Report Date: 2/23/2010
Prepared by Robert Asher
Environmental Regulatory Agent

Analytical Report 345135

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Melson ZS Federal #1

30-015-25171

23-SEP-09

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)
Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),
South Carolina(96031001), Louisiana(04154), Georgia(917)

23-SEP-09

Project Manager: **Robert Asher**
Yates Petroleum Corporation
105 South Fourth St.
Artesia, NM 88210

Reference: XENCO Report No: **345135**
Melson ZS Federal #1
Project Address: Eddy County

Robert Asher:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 345135. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 345135 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY
Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 345135

Yates Petroleum Corporation, Artesia, NM

Melson ZS Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS/Comp-001	S	Sep-17-09 09:48	4 - 4 In	345135-001
GS/Comp-002	S	Sep-17-09 10:01	12 - 12 In	345135-002
GS/Comp-003	S	Sep-17-09 10:20	18 - 18 In	345135-003
GS/Comp-004	S	Sep-17-09 10:33	4 - 4 In	345135-004
GS/Comp-005	S	Sep-17-09 10:47	12 - 12 In	345135-005
GS/Comp-006	S	Sep-17-09 10:59	18 - 18 In	345135-006

CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Melson ZS Federal #1

Project ID: 30-015-25171
Work Order Number: 345135
Report Date: 23-SEP-09
Date Received: 09/18/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-773206 Percent Moisture
None

Batch: LBA-773214 Percent Moisture
None

Batch: LBA-773228 BTEX-MTBE EPA 8021B
SW8021BM

Batch 773228, 4-Bromofluorobenzene recovered below QC limits Data not confirmed by re-analysis. Samples affected are: 538250-1-BLK,345135-005,345135-006,345135-004. Matrix Interference is suspected in sample surrogate failures.

SW8021BM

Batch 773228, Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 345135-006, -005, -004.
The Laboratory Control Sample for m,p-Xylenes , Ethylbenzene, o-Xylene is within laboratory Control Limits

CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Melson ZS Federal #1

Project ID: 30-015-25171
Work Order Number: 345135

Report Date: 23-SEP-09
Date Received: 09/18/2009

Batch: LBA-773294 BTEX-MTBE EPA 8021B
SW8021BM

Batch 773294, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 345135-002, -003, -001.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

SW8021BM

Batch 773294, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; sample data confirmed by re-analysis
Samples affected are: 345135-001 S,345135-001 SD,345135-003.
4-Bromofluorobenzene recovered below QC limits Sample Data confirmed by re-analysis.
Samples affected are: 538297-1-BLK,345135-001.
4-Bromofluorobenzene recovered above QC limits. Sample Data confirmed by re-analysis.
Samples affected are: 345135-002, 345135-003.

Batch: LBA-773698 TPH by SW 8015B
None

Certificate of Analysis Summary 345135

Yates Petroleum Corporation, Artesia, NM

Project Name: Melson ZS Federal #1

Project Id: 30-015-25171
Contact: Robert Asher
Project Location: Eddy County

Date Received in Lab: Fri Sep-18-09 09:58 am
Report Date: 23-SEP-09
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	345135-001		345135-002		345135-003		345135-004		345135-005		345135-006	
	Field Id:	GS/Comp-001		GS/Comp-002		GS/Comp-003		GS/Comp-004		GS/Comp-005		GS/Comp-006	
	Depth:	4-4 In		12-12 In		18-18 In		4-4 In		12-12 In		18-18 In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-17-09 09:48		Sep-17-09 10:01		Sep-17-09 10:20		Sep-17-09 10:33		Sep-17-09 10:47		Sep-17-09 10:59	
BTEX by EPA 8021B	*Extracted:*	Sep-21-09 09:02		Sep-21-09 09:02		Sep-21-09 09:02		Sep-18-09 15:00		Sep-18-09 15:00		Sep-18-09 15:00	
	Analyzed:	Sep-21-09 15:15		Sep-21-09 15:34		Sep-21-09 16:30		Sep-19-09 02:43		Sep-19-09 03:02		Sep-19-09 03:20	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0011	0.0031	0.0011	0.0030	0.0011	ND	0.0011	ND	0.0011	ND	0.0011
Toluene		ND	0.0022	0.0061	0.0022	0.0059	0.0023	ND	0.0021	ND	0.0022	ND	0.0023
Ethylbenzene		ND	0.0011	0.0284	0.0011	0.0219	0.0011	ND	0.0011	ND	0.0011	ND	0.0011
m,p-Xylenes		ND	0.0022	0.0449	0.0022	0.0313	0.0023	ND	0.0021	ND	0.0022	ND	0.0023
o-Xylene		ND	0.0011	0.0333	0.0011	0.0332	0.0011	ND	0.0011	ND	0.0011	ND	0.0011
Total Xylenes		ND	0.0011	0.0782	0.0011	0.0645	0.0011	ND	0.0011	ND	0.0011	ND	0.0011
Total BTEX		ND	0.0011	0.1158	0.0011	0.0953	0.0011	ND	0.0011	ND	0.0011	ND	0.0011
Percent Moisture	*Extracted:*												
	Analyzed:	Sep-21-09 08:53		Sep-21-09 08:53		Sep-21-09 09:09		Sep-21-09 09:09		Sep-21-09 09:09		Sep-21-09 09:09	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		10.9	1.00	9.80	1.00	11.5	1.00	5.61	1.00	10.7	1.00	12.6	1.00
TPH By SW8015B Mod	*Extracted:*	Sep-22-09 09:38		Sep-22-09 09:38		Sep-22-09 09:38		Sep-22-09 09:38		Sep-22-09 09:38		Sep-22-09 09:38	
	Analyzed:	Sep-22-09 11:55		Sep-22-09 12:21		Sep-22-09 12:46		Sep-22-09 13:11		Sep-22-09 13:36		Sep-22-09 14:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		ND	16.8	ND	166	ND	84.5	ND	15.8	ND	16.7	ND	17.2
C10-C28 Diesel Range Hydrocarbons		897	16.8	8690	166	2880	84.5	734	15.8	205	16.7	ND	17.2
Total TPH		897	16.8	8690	166	2880	84.5	734	15.8	205	16.7	ND	17.2

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

Brent Barron, II
Odessa Laboratory Manager

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Corpus Christi - Midland/Odessa - Tampa - Miami - Latin America

	Phone	Fax
4143 Greenbriar Dr, Stafford, Tx 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Robert Asher
Company Name: Yates Petroleum Corporation
Company Address: 105 South 4th Street
City/State/Zip: Artesia, NM. 88210
Telephone No: 505-748-4217 Fax No: 505-748-4662
Sampler Signature:

Project Name: Melson ZS Federal #1
Project #: 30 015-28171
Project Loc: Eddy County
PO #: 105832
Report Format: [x] Standard [ ] TRRP [ ]

e-mail: boba@yatespetroleum.com

(lab use only) ORDER #: 345135/345138=cl

Analyze For:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: Drinking Water	Ground Water	Wastewater	Sludge	Other	TPH 418.1	TPH 8015M	TPH TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or EPA 8260	TCLP	TDTCLP	N O R M	Chlorides			RUSH TAT (Pre-Schedule 24, 48, 72 hrs)	Standard TAT
001	GS/Comp-001	4"	4"	9/17/2009	9:48 AM		X	X									S				X								X				X				X
002	GS/Comp-002	12"	12"	9/17/2009	10:01 AM		X	X									S				X								X				X				X
003	GS/Comp-003	18"	18"	9/17/2009	10:20 AM		X	X									S				X								X				X				X
004	GS/Comp-004	4"	4"	9/17/2009	10:33 AM		X	X									S				X								X				X				X
005	GS/Comp-005	12"	12"	9/17/2009	10:47 AM		X	X									S				X								X				X				X
006	GS/Comp-006	18"	18"	9/17/2009	10:59 AM		X	X									S				X								X				X				X
	PLEASE PUT CHLORIDES																																						
	ON SEPARATE REPORT																																						

Special Instructions: TPH: 8015B; BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you.

Relinquished by	Date	Time	Received by	Date	Time
Robert Asher	09/17/09	2:29 PM			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: FedEx	Date 09/18/09	Time 9:58	Received by ELOT	Date 09/19/09	Time 9:53

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s)? Y N
Custody seals on container(s)? Y N
Custody seals on cooler(s)? Y N
Sample Hand Delivered by Sampler/Client Rep.? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 4 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Yates Pet

Date/ Time: 05/13/09 9:55

Lab ID #: 345057 345138

Initials: CJ

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	(Yes)	No	4.1 °C	
#2 Shipping container in good condition?	(Yes)	No		
#3 Custody Seals intact on shipping container/ cooler?	(Yes)	No	Not Present	
#4 Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5 Chain of Custody present?	(Yes)	No		
#6 Sample instructions complete of Chain of Custody?	(Yes)	No		
#7 Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8 Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont / Lid	
#9 Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11 Containers supplied by ELOT?	(Yes)	No		
#12 Samples in proper container/ bottle?	(Yes)	No	See Below	
#13 Samples properly preserved?	(Yes)	No	See Below	
#14 Sample bottles intact?	(Yes)	No		
#15 Preservations documented on Chain of Custody?	(Yes)	No		
#16 Containers documented on Chain of Custody?	(Yes)	No		
#17 Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18 All samples received within sufficient hold time?	(Yes)	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20 VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 345138

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Melson ZS Federal #1

30-015-25171

23-SEP-09

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87428), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)
Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),
South Carolina(96031001), Louisiana(04154), Georgia(917)

Sample Cross Reference 345138

Yates Petroleum Corporation, Artesia, NM

Melson ZS Federal #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS/Comp-001	S	Sep-17-09 09:48	4 - 4 In	345138-001
GS/Comp-002	S	Sep-17-09 10:01	12 - 12 In	345138-002
GS/Comp-003	S	Sep-17-09 10:20	18 - 18 In	345138-003
GS/Comp-004	S	Sep-17-09 10:33	4 - 4 In	345138-004
GS/Comp-005	S	Sep-17-09 10:47	12 - 12 In	345138-005
GS/Comp-006	S	Sep-17-09 10:59	18 - 18 In	345138-006

CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Melson ZS Federal #1

Project ID: 30-015-25171
Work Order Number: 345138

Report Date: 23-SEP-09
Date Received: 09/18/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-773214 Percent Moisture
None

Batch: LBA-773259 Inorganic Anions by EPA 300
E300MI

Batch 773259, Chloride recovered above QC limits in the Matrix Spike.
Samples affected are: 345138-001, -002, -005, -003, -004, -006.
The Laboratory Control Sample for Chloride is within laboratory Control Limits

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

Environmental Lab of Texas

A Xenco Laboratories Company

12600 West I-20 East
Odessa, Texas 79765

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Robert Asher
Company Name: Yates Petroleum Corporation
Company Address: 105 South 4th Street
City/State/Zip: Artesia, NM. 88210
Telephone No: 505-748-4217
Fax No: 505-748-4662
Sampler Signature: [signature]
e-mail: boba@yatespetroleum.com

Project Name: Melson ZS Federal #1
Project #: 30-015-25171
Project Loc: Eddy County
PO #: 105032
Report Format: [x] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 345135/345138=cl

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Ice	Matrix	TPH 418.1 8015M 8015B	BTEX 8021B/5030 or BTEX 8260	Chlorides	Standard TAT
001	GS/Comp-001	4"	4"	9/17/2009	9:48 AM	X	S	X	X	X	X
002	GS/Comp-002	12"	12"	9/17/2009	10:01 AM	X	S	X	X	X	X
003	GS/Comp-003	18"	18"	9/17/2009	10:20 AM	X	S	X	X	X	X
004	GS/Comp-004	4"	4"	9/17/2009	10:33 AM	X	S	X	X	X	X
005	GS/Comp-005	12"	12"	9/17/2009	10:47 AM	X	S	X	X	X	X
006	GS/Comp-006	18"	18"	9/17/2009	10:59 AM	X	S	X	X	X	X
	PLEASE PUT CHLORIDES										
	ON SEPARATE REPORT										

Special Instructions: TPH: 8015B; BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you.

Relinquished by	Date	Time	Received by	Date	Time
Robert Asher RA/YPC	09/17/09	2:29 PM			
FedEx	09/18/09	9:58	Received by ELOT: [signature]	9/18/09	9:58

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s)? Y N
Custody seals on container(s)? Y N
Custody seals on cooler(s)? Y N
Sample Hand Delivered Y N
by Sampler/Client Rep.? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 4.1 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Yates Pet

Date/ Time: 12/15/21 0938

Lab ID #: 345135 / 345133

Initials: AM

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	Yes	No	4 °C	
#2 Shipping container in good condition?	Yes	No		
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5 Chain of Custody present?	Yes	No		
#6 Sample instructions complete of Chain of Custody?	Yes	No		
#7 Chain of Custody signed when relinquished/ received?	Yes	No		
#8 Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont / Lid	
#9 Container label(s) legible and intact?	Yes	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11 Containers supplied by ELOT?	Yes	No		
#12 Samples in proper container/ bottle?	Yes	No	See Below	
#13 Samples properly preserved?	Yes	No	See Below	
#14 Sample bottles intact?	Yes	No		
#15 Preservations documented on Chain of Custody?	Yes	No		
#16 Containers documented on Chain of Custody?	Yes	No		
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18 All samples received within sufficient hold time?	Yes	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	Not Applicable	
#20 VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 362839

for

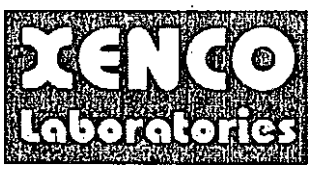
Yates Petroleum Corporation

Project Manager: Robert Asher

Melson ZS Federal # 1

30-015-25171

23-FEB-10



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)

23-FEB-10

Project Manager: **Robert Asher**
Yates Petroleum Corporation
105 South Fourth St.
Artesia, NM 88210

Reference: XENCO Report No: **362839**
Melson ZS Federal # 1
Project Address: Eddy County

Robert Asher:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 362839. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 362839 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY
Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 362839

Yates Petroleum Corporation, Artesia, NM

Melson ZS Federal # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS/Comp-001	S	Feb-18-10 10:34	24 - 24 In	362839-001
GS/Comp-002	S	Feb-18-10 10:47	30 - 30 In	362839-002
GS/Comp-003	S	Feb-18-10 11:03	6 - 6 In	362839-003

CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Melson ZS Federal # 1

Project ID: 30-015-25171
Work Order Number: 362839

Report Date: 23-FEB-10
Date Received: 02/19/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-794718 TPH by SW 8015B
SW8015B_NM

Batch 794718, C10-C28 Diesel Range Hydrocarbons recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 362839-001, -002, -003.
The Laboratory Control Sample for C10-C28 Diesel Range Hydrocarbons is within laboratory Control Limits

Batch: LBA-794783 Percent Moisture
None

Batch: LBA-794998 BTEX by EPA 8021
SW8021BM

Batch 794998, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 362839-001, -002, -003.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Certificate of Analysis Summary 362839

Yates Petroleum Corporation, Artesia, NM

Project Name: Melson ZS Federal # 1

Project Id: 30-015-25171
Contact: Robert Asher
Project Location: Eddy County

Date Received in Lab: Fri Feb-19-10 09:35 am
Report Date: 23-FEB-10
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	362839-001		362839-002		362839-003					
	Field Id:	GS/Comp-001		GS/Comp-002		GS/Comp-003					
	Depth:	24-24 In		30-30 In		6-6 In					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	Feb-18-10 10:34		Feb-18-10 10:47		Feb-18-10 11:03					
BTEX by EPA 8021	*Extracted:*	Feb-22-10 17:05		Feb-22-10 17:05		Feb-22-10 17:05					
	Analyzed:	Feb-23-10 03:51		Feb-23-10 04:13		Feb-23-10 04:35					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		ND	0.0012	ND	0.0011	ND	0.0012				
Toluene		ND	0.0023	ND	0.0023	ND	0.0023				
Ethylbenzene		ND	0.0012	ND	0.0011	ND	0.0012				
m,p-Xylenes		ND	0.0023	ND	0.0023	ND	0.0023				
o-Xylene		ND	0.0012	ND	0.0011	ND	0.0012				
Xylenes, Total		ND	0.0012	ND	0.0011	ND	0.0012				
Total BTEX		ND	0.0012	ND	0.0011	ND	0.0012				
Percent Moisture	*Extracted:*										
	Analyzed:	Feb-19-10 17:00		Feb-19-10 17:00		Feb-19-10 17:00					
	Units/RL:	%	RL	%	RL	%	RL				
Percent Moisture		13.7	1.00	12.4	1.00	15.1	1.00				
TPH by SW 8015B	*Extracted:*	Feb-19-10 11:45		Feb-19-10 11:45		Feb-19-10 11:45					
	Analyzed:	Feb-20-10 06:08		Feb-20-10 06:35		Feb-20-10 07:03					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C10 Gasoline Range Hydrocarbons		ND	17.4	ND	85.5	ND	17.7				
C10-C28 Diesel Range Hydrocarbons		537	17.4	815	85.5	21.4	17.7				
Total TPH		537	17.4	815	85.5	21.4	17.7				

Brent Barron, II
Odessa Laboratory Manager

Final Ver. 1.000

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Corpus Christi - Midland/Odessa - Tampa - Miami - Latin America

	Phone	Fax
4143 Greenbriar Dr, Stafford, Tx 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Robert Asher

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 505-748-4217 Fax No: 505-748-4662

Sampler Signature:

e-mail: boba@yatespetroleum.com

Project Name: Melson ZS Federal #1

Project #: 30-015-25171

Project Loc: Eddy County

PO #: 105632

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)

ORDER #: 362839/362840

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW=Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: TPH 418.1	8015M	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	GS/Comp-001	24"	24"	2/18/2010	10:34 AM			X									S		X										X			X				X
02	GS/Comp-002	30"	30"	2/18/2010	10:47 AM			X									S		X										X			X				X
03	GS/Comp-003	6"	6"	2/18/2010	11:03 AM			X									S		X										X			X				X
	PLEASE PUT CHLORIDES																																			
	ON SEPARATE REPORT																																			

Special Instructions: TPH: 8015B; BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you.

Relinquished by:	Date	Time	Received by:	Date	Time
Robert Asher RCA/YPC	02/18/10	3:29 PM			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
Fedex			Andrea Sowm	2.19.10	9:35

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?		
by Courier? UPS DHL FedEx Lone Star		

Temperature Upon Receipt: 4.6 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Yates Petroleum

Date/ Time: 2.19.10 9:35

Lab ID #: 362839 | 362840

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.6 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	(Yes)	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Analytical Report 362840

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Melson ZS Federal # 1

30-015-25171

23-FEB-10

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)
Xenco-Boca Raton (EPA Lab Code: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)

23-FEB-10

Project Manager: **Robert Asher**
Yates Petroleum Corporation
105 South Fourth St.
Artesia, NM 88210

Reference: XENCO Report No: **362840**
Melson ZS Federal # 1
Project Address: Eddy County

Robert Asher:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 362840. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 362840 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America

Sample Cross Reference 362840

Yates Petroleum Corporation, Artesia, NM

Melson ZS Federal # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS/Comp-001	S	Feb-18-10 10:34	24 - 24 In	362840-001
GS/Comp-002	S	Feb-18-10 10:47	30 - 30 In	362840-002
GS/Comp-003	S	Feb-18-10 11:03	6 - 6 In	362840-003

CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Melson ZS Federal # 1

Project ID: 30-015-25171
Work Order Number: 362840

Report Date: 23-FEB-10
Date Received: 02/19/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-794783 Percent Moisture
None

Batch: LBA-794973 Inorganic Anions by EPA 300
None

Certificate of Analysis Summary 362840

Yates Petroleum Corporation, Artesia, NM

Project Name: Melson ZS Federal # 1

Project Id: 30-015-25171
Contact: Robert Asher
Project Location: Eddy County

Date Received in Lab: Fri Feb-19-10 09:35 am
Report Date: 23-FEB-10
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	362840-001		362840-002		362840-003					
	Field Id:	GS/Comp-001		GS/Comp-002		GS/Comp-003					
	Depth:	24-24 In		30-30 In		6-6 In					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	Feb-18-10 10:34		Feb-18-10 10:47		Feb-18-10 11:03					
Anions in Soil By EPA 300.0	*Extracted:*										
	Analyzed:	Feb-22-10 19:16		Feb-22-10 19:16		Feb-22-10 19:16					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		631	19.5	2410	48.0	1010	49.5				
Percent Moisture	*Extracted:*										
	Analyzed:	Feb-19-10 17:00		Feb-19-10 17:00		Feb-19-10 17:00					
	Units/RL:	%	RL	%	RL	%	RL				
Percent Moisture		13.7	1.00	12.4	1.00	15.1	1.00				

Brent Barron, II
Odessa Laboratory Manager

Final Ver. 1.000

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

* Outside XENCO's scope of NELAC Accreditation.

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Robert Asher

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 505-748-4217 Fax No: 505-748-4662

Sampler Signature:

e-mail: boba@yatespetroleum.com

Project Name: Melson ZS Federal #1

Project #: 30-015-25171

Project Loc: Eddy County

PO #: 105632

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)

ORDER #: 362839/362840

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW=Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals, As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	-	-	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	GS/Comp-001	24"	24"	2/18/2010	10:34 AM			X								S			X								X			X				X
02	GS/Comp-002	30"	30"	2/18/2010	10:47 AM			X								S			X								X			X				X
03	GS/Comp-003	6"	6"	2/18/2010	11:03 AM			X								S			X								X			X				X
	PLEASE PUT CHLORIDES ON SEPARATE REPORT																																

Special Instructions: TPH: 8015B; BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you.

Relinquished by:	Date	Time	Received by:	Date	Time
Robert Asher RCA/UPC	02/18/10	3:29 PM			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Fedex	Date	Time	Received by ELOT: Andrea Lamm	Date 2.19.10	Time 9:35

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?		N
Labels on container(s)	Y	N
Custody seals on container(s)		N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered		N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

4029455

Temperature Upon Receipt: 4.6 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Yates Petroleum

Date/ Time: 2.19.10 9:35

Lab ID #: 362839 | 362840

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.6 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	(Yes)	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Appendix D

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-956-1
Laboratory Sample Delivery Group: Eddy County New Mexico
Client Project/Site: Melson Federal #002

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

Attn: Clair Gonzales

JKramer

Authorized for release by:
7/21/2021 10:38:13 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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

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

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002

Laboratory Job ID: 890-956-1
SDG: Eddy County New Mexico

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 890-956-1
Project/Site: Melson Federal #002 SDG: Eddy County New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
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.
¤	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: Melson Federal #002

Job ID: 890-956-1
SDG: Eddy County New Mexico

Job ID: 890-956-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-956-1

Receipt
The samples were received on 7/16/2021 1:01 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 5.0°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: H-2 (0-6) (890-956-2), H-4 (0-6) (890-956-4), H-5 (0-6) (890-956-5), H-6 (0-6) (890-956-6), AH-2 (1-1.5) (890-956-10) and (890-954-A-38-C). 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
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.

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002

Job ID: 890-956-1
SDG: Eddy County New Mexico

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

Lab Sample ID: 890-956-1
Matrix: Solid
Date Collected: 07/16/21 00:00
Date Received: 07/16/21 13:01
Sample Depth: 0 - 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/19/21 11:25	07/19/21 22:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/19/21 11:25	07/19/21 22:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/19/21 11:25	07/19/21 22:13	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/19/21 11:25	07/19/21 22:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/19/21 11:25	07/19/21 22:13	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/19/21 11:25	07/19/21 22:13	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		07/19/21 11:25	07/19/21 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*07/19/21 11:25*	*07/19/21 22:13*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/19/21 11:25*	*07/19/21 22:13*	*1*

Method: 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		07/19/21 14:13	07/20/21 02:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 14:13	07/20/21 02:21	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 14:13	07/20/21 02:21	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 14:13	07/20/21 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*07/19/21 14:13*	*07/20/21 02:21*	*1*
o-Terphenyl	*108*		*70 - 130*	*07/19/21 14:13*	*07/20/21 02:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.5**		5.00		mg/Kg			07/20/21 13:50	1

Client Sample ID: H-2 (0-6)

Lab Sample ID: 890-956-2
Matrix: Solid
Date Collected: 07/16/21 00:00
Date Received: 07/16/21 13:01
Sample Depth: 0 - 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/19/21 11:25	07/19/21 22:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/19/21 11:25	07/19/21 22:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/19/21 11:25	07/19/21 22:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/19/21 11:25	07/19/21 22:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/19/21 11:25	07/19/21 22:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/19/21 11:25	07/19/21 22:33	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/19/21 11:25	07/19/21 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*07/19/21 11:25*	*07/19/21 22:33*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/19/21 11:25*	*07/19/21 22:33*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002

Job ID: 890-956-1
SDG: Eddy County New Mexico

Client Sample ID: H-2 (0-6)

Lab Sample ID: 890-956-2
Matrix: Solid
Date Collected: 07/16/21 00:00
Date Received: 07/16/21 13:01
Sample Depth: 0 - 6

Method: 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		07/19/21 14:13	07/20/21 02:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/21 14:13	07/20/21 02:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/21 14:13	07/20/21 02:42	1
Total TPH	<49.9	U	49.9		mg/Kg		07/19/21 14:13	07/20/21 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*07/19/21 14:13*	*07/20/21 02:42*	*1*
o-Terphenyl	*108*		*70 - 130*	*07/19/21 14:13*	*07/20/21 02:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.03**		5.03		mg/Kg			07/20/21 13:55	1

Client Sample ID: H-3 (0-6)

Lab Sample ID: 890-956-3
Matrix: Solid
Date Collected: 07/16/21 00:00
Date Received: 07/16/21 13:01
Sample Depth: 0 - 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/19/21 11:25	07/19/21 22:54	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/19/21 11:25	07/19/21 22:54	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/19/21 11:25	07/19/21 22:54	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/19/21 11:25	07/19/21 22:54	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/19/21 11:25	07/19/21 22:54	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/19/21 11:25	07/19/21 22:54	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		07/19/21 11:25	07/19/21 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/19/21 11:25*	*07/19/21 22:54*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/19/21 11:25*	*07/19/21 22:54*	*1*

Method: 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		07/19/21 14:13	07/20/21 03:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 14:13	07/20/21 03:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 14:13	07/20/21 03:23	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 14:13	07/20/21 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/19/21 14:13*	*07/20/21 03:23*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/19/21 14:13*	*07/20/21 03:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.00**		4.98		mg/Kg			07/20/21 14:01	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002

Job ID: 890-956-1
SDG: Eddy County New Mexico

Client Sample ID: H-4 (0-6)

Lab Sample ID: 890-956-4
Matrix: Solid
Date Collected: 07/16/21 00:00
Date Received: 07/16/21 13:01
Sample Depth: 0 - 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/19/21 11:25	07/19/21 23:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/19/21 11:25	07/19/21 23:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/19/21 11:25	07/19/21 23:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/19/21 11:25	07/19/21 23:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/19/21 11:25	07/19/21 23:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/19/21 11:25	07/19/21 23:14	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/19/21 11:25	07/19/21 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/19/21 11:25*	*07/19/21 23:14*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/19/21 11:25*	*07/19/21 23:14*	*1*

Method: 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		07/19/21 14:13	07/20/21 03:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 14:13	07/20/21 03:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 14:13	07/20/21 03:44	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 14:13	07/20/21 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*07/19/21 14:13*	*07/20/21 03:44*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/19/21 14:13*	*07/20/21 03:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.1**		5.05		mg/Kg			07/20/21 01:01	1

Client Sample ID: H-5 (0-6)

Lab Sample ID: 890-956-5
Matrix: Solid
Date Collected: 07/16/21 00:00
Date Received: 07/16/21 13:01
Sample Depth: 0 - 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/19/21 11:25	07/19/21 23:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/19/21 11:25	07/19/21 23:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/19/21 11:25	07/19/21 23:34	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/19/21 11:25	07/19/21 23:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/19/21 11:25	07/19/21 23:34	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/19/21 11:25	07/19/21 23:34	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/19/21 11:25	07/19/21 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*07/19/21 11:25*	*07/19/21 23:34*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/19/21 11:25*	*07/19/21 23:34*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002

Job ID: 890-956-1
SDG: Eddy County New Mexico

Client Sample ID: H-5 (0-6)

Lab Sample ID: 890-956-5
Matrix: Solid
Date Collected: 07/16/21 00:00
Date Received: 07/16/21 13:01
Sample Depth: 0 - 6

Method: 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		07/19/21 14:13	07/20/21 04:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/21 14:13	07/20/21 04:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/21 14:13	07/20/21 04:05	1
Total TPH	<49.9	U	49.9		mg/Kg		07/19/21 14:13	07/20/21 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*07/19/21 14:13*	*07/20/21 04:05*	*1*
o-Terphenyl	*107*		*70 - 130*	*07/19/21 14:13*	*07/20/21 04:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**225**		5.00		mg/Kg			07/20/21 01:07	1

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

Lab Sample ID: 890-956-6
Matrix: Solid
Date Collected: 07/16/21 00:00
Date Received: 07/16/21 13:01
Sample Depth: 0 - 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/19/21 11:25	07/19/21 23:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/19/21 11:25	07/19/21 23:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/19/21 11:25	07/19/21 23:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/19/21 11:25	07/19/21 23:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/19/21 11:25	07/19/21 23:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/19/21 11:25	07/19/21 23:55	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/19/21 11:25	07/19/21 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*07/19/21 11:25*	*07/19/21 23:55*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/19/21 11:25*	*07/19/21 23:55*	*1*

Method: 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		07/19/21 14:13	07/20/21 04:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/19/21 14:13	07/20/21 04:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/21 14:13	07/20/21 04:26	1
Total TPH	<49.9	U	49.9		mg/Kg		07/19/21 14:13	07/20/21 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*07/19/21 14:13*	*07/20/21 04:26*	*1*
o-Terphenyl	*95*		*70 - 130*	*07/19/21 14:13*	*07/20/21 04:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**183**		4.96		mg/Kg			07/20/21 01:12	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002

Job ID: 890-956-1
SDG: Eddy County New Mexico

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

Lab Sample ID: 890-956-7
Matrix: Solid
Date Collected: 07/16/21 00:00
Date Received: 07/16/21 13:01
Sample Depth: 0 - 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/19/21 11:25	07/20/21 00:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/19/21 11:25	07/20/21 00:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/19/21 11:25	07/20/21 00:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/19/21 11:25	07/20/21 00:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/19/21 11:25	07/20/21 00:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/19/21 11:25	07/20/21 00:15	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/19/21 11:25	07/20/21 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/19/21 11:25*	*07/20/21 00:15*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/19/21 11:25*	*07/20/21 00:15*	*1*

Method: 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		07/19/21 14:13	07/20/21 04:46	1
Diesel Range Organics (Over C10-C28)	**66.2**		49.9		mg/Kg		07/19/21 14:13	07/20/21 04:46	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/19/21 14:13	07/20/21 04:46	1
Total TPH	**66.2**		49.9		mg/Kg		07/19/21 14:13	07/20/21 04:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/19/21 14:13*	*07/20/21 04:46*	*1*
o-Terphenyl	*112*		*70 - 130*	*07/19/21 14:13*	*07/20/21 04:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20800**		250		mg/Kg			07/20/21 01:18	50

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

Lab Sample ID: 890-956-8
Matrix: Solid
Date Collected: 07/16/21 00:00
Date Received: 07/16/21 13:01
Sample Depth: 1 - 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/19/21 11:25	07/20/21 00:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/19/21 11:25	07/20/21 00:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/19/21 11:25	07/20/21 00:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/19/21 11:25	07/20/21 00:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/19/21 11:25	07/20/21 00:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/19/21 11:25	07/20/21 00:36	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/19/21 11:25	07/20/21 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/19/21 11:25*	*07/20/21 00:36*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/19/21 11:25*	*07/20/21 00:36*	*1*

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002

Job ID: 890-956-1
SDG: Eddy County New Mexico

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

Lab Sample ID: 890-956-8
Matrix: Solid
Date Collected: 07/16/21 00:00
Date Received: 07/16/21 13:01
Sample Depth: 1 - 1.5

Method: 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		07/19/21 14:13	07/20/21 05:07	1
Diesel Range Organics (Over C10-C28)	**219**		50.0		mg/Kg		07/19/21 14:13	07/20/21 05:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 14:13	07/20/21 05:07	1
Total TPH	**219**		50.0		mg/Kg		07/19/21 14:13	07/20/21 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*07/19/21 14:13*	*07/20/21 05:07*	*1*
o-Terphenyl	*113*		*70 - 130*	*07/19/21 14:13*	*07/20/21 05:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21700**		101		mg/Kg			07/20/21 09:34	20

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

Lab Sample ID: 890-956-9
Matrix: Solid
Date Collected: 07/16/21 00:00
Date Received: 07/16/21 13:01
Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/19/21 11:25	07/20/21 00:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/19/21 11:25	07/20/21 00:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/19/21 11:25	07/20/21 00:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/19/21 11:25	07/20/21 00:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/19/21 11:25	07/20/21 00:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/19/21 11:25	07/20/21 00:56	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/19/21 11:25	07/20/21 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/19/21 11:25*	*07/20/21 00:56*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/19/21 11:25*	*07/20/21 00:56*	*1*

Method: 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		07/19/21 14:13	07/20/21 05:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 14:13	07/20/21 05:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 14:13	07/20/21 05:28	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 14:13	07/20/21 05:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*07/19/21 14:13*	*07/20/21 05:28*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/19/21 14:13*	*07/20/21 05:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**347**		5.05		mg/Kg			07/20/21 01:28	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002

Job ID: 890-956-1
SDG: Eddy County New Mexico

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

Date Collected: 07/16/21 00:00
Date Received: 07/16/21 13:01
Sample Depth: 1 - 1.5

Lab Sample ID: 890-956-10

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/19/21 11:25	07/20/21 01:16	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/19/21 11:25	07/20/21 01:16	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/19/21 11:25	07/20/21 01:16	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/19/21 11:25	07/20/21 01:16	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/19/21 11:25	07/20/21 01:16	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/19/21 11:25	07/20/21 01:16	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		07/19/21 11:25	07/20/21 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/19/21 11:25*	*07/20/21 01:16*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/19/21 11:25*	*07/20/21 01:16*	*1*

Method: 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		07/21/21 14:31	07/21/21 20:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/21/21 14:31	07/21/21 20:45	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/21/21 14:31	07/21/21 20:45	1
Total TPH	<50.0	U	50.0		mg/Kg		07/21/21 14:31	07/21/21 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*07/21/21 14:31*	*07/21/21 20:45*	*1*
o-Terphenyl	*109*		*70 - 130*	*07/21/21 14:31*	*07/21/21 20:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**112**		4.98		mg/Kg			07/20/21 01:34	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002

Job ID: 890-956-1
SDG: Eddy County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-956-1	H-1 (0-6)	114	95
890-956-2	H-2 (0-6)	120	95
890-956-3	H-3 (0-6)	112	100
890-956-4	H-4 (0-6)	122	91
890-956-5	H-5 (0-6)	124	91
890-956-6	H-6 (0-6)	128	90
890-956-7	AH-1 (0-1)	115	102
890-956-8	AH-1 (1-1.5)	115	99
890-956-9	AH-2 (0-1)	113	100
890-956-10	AH-2 (1-1.5)	122	93
LCS 880-5364/1-A	Lab Control Sample	98	98
LCSD 880-5364/2-A	Lab Control Sample Dup	100	96
MB 880-5364/5-A	Method Blank	109	93

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-956-1	H-1 (0-6)	96	108
890-956-2	H-2 (0-6)	99	108
890-956-3	H-3 (0-6)	101	119
890-956-4	H-4 (0-6)	90	99
890-956-5	H-5 (0-6)	92	107
890-956-6	H-6 (0-6)	87	95
890-956-7	AH-1 (0-1)	101	112
890-956-8	AH-1 (1-1.5)	99	113
890-956-9	AH-2 (0-1)	93	99
890-956-10	AH-2 (1-1.5)	108	109
LCS 880-5389/2-A	Lab Control Sample	112	115
LCS 880-5482/2-A	Lab Control Sample	106	100
LCSD 880-5389/3-A	Lab Control Sample Dup	116	114
LCSD 880-5482/3-A	Lab Control Sample Dup	95	91
MB 880-5389/1-A	Method Blank	98	105
MB 880-5482/1-A	Method Blank	110	118

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002

Job ID: 890-956-1
SDG: Eddy County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5364/5-A
Matrix: Solid
Analysis Batch: 5378

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/19/21 11:25	07/19/21 16:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/19/21 11:25	07/19/21 16:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/19/21 11:25	07/19/21 16:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/19/21 11:25	07/19/21 16:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/19/21 11:25	07/19/21 16:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/19/21 11:25	07/19/21 16:50	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/19/21 11:25	07/19/21 16:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*07/19/21 11:25*	*07/19/21 16:50*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/19/21 11:25*	*07/19/21 16:50*	*1*

Lab Sample ID: LCS 880-5364/1-A
Matrix: Solid
Analysis Batch: 5378

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5364

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09891		mg/Kg		99	70 - 130		
Toluene			0.100	0.09843		mg/Kg		98	70 - 130		
Ethylbenzene			0.100	0.1029		mg/Kg		103	70 - 130		
m-Xylene & p-Xylene			0.200	0.2065		mg/Kg		103	70 - 130		
o-Xylene			0.100	0.09717		mg/Kg		97	70 - 130		

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

Lab Sample ID: LCSD 880-5364/2-A
Matrix: Solid
Analysis Batch: 5378

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5364

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09438		mg/Kg		94	70 - 130	5	35
Toluene			0.100	0.09783		mg/Kg		98	70 - 130	1	35
Ethylbenzene			0.100	0.1038		mg/Kg		104	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2102		mg/Kg		105	70 - 130	2	35
o-Xylene			0.100	0.09923		mg/Kg		99	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002

Job ID: 890-956-1
SDG: Eddy County New Mexico

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

Lab Sample ID: MB 880-5389/1-A
Matrix: Solid
Analysis Batch: 5354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5389

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		07/19/21 14:13	07/19/21 21:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/19/21 14:13	07/19/21 21:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/19/21 14:13	07/19/21 21:51	1
Total TPH	<50.0	U	50.0		mg/Kg		07/19/21 14:13	07/19/21 21:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/19/21 14:13*	*07/19/21 21:51*	*1*
o-Terphenyl	*105*		*70 - 130*	*07/19/21 14:13*	*07/19/21 21:51*	*1*

Lab Sample ID: LCS 880-5389/2-A
Matrix: Solid
Analysis Batch: 5354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5389

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	899.1		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1089		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*112*		*70 - 130*
o-Terphenyl	*115*		*70 - 130*

Lab Sample ID: LCSD 880-5389/3-A
Matrix: Solid
Analysis Batch: 5354

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5389

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	952.5		mg/Kg		95	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	1123		mg/Kg		112	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*114*		*70 - 130*

Lab Sample ID: MB 880-5482/1-A
Matrix: Solid
Analysis Batch: 5450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5482

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		07/21/21 14:31	07/21/21 19:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/21/21 14:31	07/21/21 19:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/21/21 14:31	07/21/21 19:42	1
Total TPH	<50.0	U	50.0		mg/Kg		07/21/21 14:31	07/21/21 19:42	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002

Job ID: 890-956-1
SDG: Eddy County New Mexico

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	07/21/21 14:31	07/21/21 19:42	1
o-Terphenyl	118		70 - 130	07/21/21 14:31	07/21/21 19:42	1

Lab Sample ID: LCS 880-5482/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 5450 — **Prep Batch: 5482**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	860.7		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	999.1		mg/Kg		100	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-5482/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 5450 — **Prep Batch: 5482**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	776.6		mg/Kg		78	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	885.6		mg/Kg		89	70 - 130	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	91		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5374/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 5399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/19/21 22:52	1

Lab Sample ID: LCS 880-5374/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 5399

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	243.4		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-5374/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 5399

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	243.7		mg/Kg		97	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002

Job ID: 890-956-1
SDG: Eddy County New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5370/1-A
Matrix: Solid
Analysis Batch: 5418

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			07/20/21 11:16	1

Lab Sample ID: LCS 880-5370/2-A
Matrix: Solid
Analysis Batch: 5418

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	247.2		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-5370/3-A
Matrix: Solid
Analysis Batch: 5418

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	247.2		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002

Job ID: 890-956-1
SDG: Eddy County New Mexico

GC VOA

Prep Batch: 5364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-956-1	H-1 (0-6)	Total/NA	Solid	5035	
890-956-2	H-2 (0-6)	Total/NA	Solid	5035	
890-956-3	H-3 (0-6)	Total/NA	Solid	5035	
890-956-4	H-4 (0-6)	Total/NA	Solid	5035	
890-956-5	H-5 (0-6)	Total/NA	Solid	5035	
890-956-6	H-6 (0-6)	Total/NA	Solid	5035	
890-956-7	AH-1 (0-1)	Total/NA	Solid	5035	
890-956-8	AH-1 (1-1.5)	Total/NA	Solid	5035	
890-956-9	AH-2 (0-1)	Total/NA	Solid	5035	
890-956-10	AH-2 (1-1.5)	Total/NA	Solid	5035	
MB 880-5364/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5364/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5364/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 5378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-956-1	H-1 (0-6)	Total/NA	Solid	8021B	5364
890-956-2	H-2 (0-6)	Total/NA	Solid	8021B	5364
890-956-3	H-3 (0-6)	Total/NA	Solid	8021B	5364
890-956-4	H-4 (0-6)	Total/NA	Solid	8021B	5364
890-956-5	H-5 (0-6)	Total/NA	Solid	8021B	5364
890-956-6	H-6 (0-6)	Total/NA	Solid	8021B	5364
890-956-7	AH-1 (0-1)	Total/NA	Solid	8021B	5364
890-956-8	AH-1 (1-1.5)	Total/NA	Solid	8021B	5364
890-956-9	AH-2 (0-1)	Total/NA	Solid	8021B	5364
890-956-10	AH-2 (1-1.5)	Total/NA	Solid	8021B	5364
MB 880-5364/5-A	Method Blank	Total/NA	Solid	8021B	5364
LCS 880-5364/1-A	Lab Control Sample	Total/NA	Solid	8021B	5364
LCSD 880-5364/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5364

GC Semi VOA

Analysis Batch: 5354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-956-1	H-1 (0-6)	Total/NA	Solid	8015B NM	5389
890-956-2	H-2 (0-6)	Total/NA	Solid	8015B NM	5389
890-956-3	H-3 (0-6)	Total/NA	Solid	8015B NM	5389
890-956-4	H-4 (0-6)	Total/NA	Solid	8015B NM	5389
890-956-5	H-5 (0-6)	Total/NA	Solid	8015B NM	5389
890-956-6	H-6 (0-6)	Total/NA	Solid	8015B NM	5389
890-956-7	AH-1 (0-1)	Total/NA	Solid	8015B NM	5389
890-956-8	AH-1 (1-1.5)	Total/NA	Solid	8015B NM	5389
890-956-9	AH-2 (0-1)	Total/NA	Solid	8015B NM	5389
MB 880-5389/1-A	Method Blank	Total/NA	Solid	8015B NM	5389
LCS 880-5389/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5389
LCSD 880-5389/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5389

Prep Batch: 5389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-956-1	H-1 (0-6)	Total/NA	Solid	8015NM Prep	
890-956-2	H-2 (0-6)	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 890-956-1
Project/Site: Melson Federal #002 SDG: Eddy County New Mexico

GC Semi VOA (Continued)

Prep Batch: 5389 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-956-3	H-3 (0-6)	Total/NA	Solid	8015NM Prep	
890-956-4	H-4 (0-6)	Total/NA	Solid	8015NM Prep	
890-956-5	H-5 (0-6)	Total/NA	Solid	8015NM Prep	
890-956-6	H-6 (0-6)	Total/NA	Solid	8015NM Prep	
890-956-7	AH-1 (0-1)	Total/NA	Solid	8015NM Prep	
890-956-8	AH-1 (1-1.5)	Total/NA	Solid	8015NM Prep	
890-956-9	AH-2 (0-1)	Total/NA	Solid	8015NM Prep	
MB 880-5389/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5389/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5389/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-956-10	AH-2 (1-1.5)	Total/NA	Solid	8015B NM	5482
MB 880-5482/1-A	Method Blank	Total/NA	Solid	8015B NM	5482
LCS 880-5482/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5482
LCSD 880-5482/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5482

Prep Batch: 5482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-956-10	AH-2 (1-1.5)	Total/NA	Solid	8015NM Prep	
MB 880-5482/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5482/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5482/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 5370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-956-1	H-1 (0-6)	Soluble	Solid	DI Leach	
890-956-2	H-2 (0-6)	Soluble	Solid	DI Leach	
890-956-3	H-3 (0-6)	Soluble	Solid	DI Leach	
MB 880-5370/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5370/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5370/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 5374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-956-4	H-4 (0-6)	Soluble	Solid	DI Leach	
890-956-5	H-5 (0-6)	Soluble	Solid	DI Leach	
890-956-6	H-6 (0-6)	Soluble	Solid	DI Leach	
890-956-7	AH-1 (0-1)	Soluble	Solid	DI Leach	
890-956-8	AH-1 (1-1.5)	Soluble	Solid	DI Leach	
890-956-9	AH-2 (0-1)	Soluble	Solid	DI Leach	
890-956-10	AH-2 (1-1.5)	Soluble	Solid	DI Leach	
MB 880-5374/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5374/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5374/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002

Job ID: 890-956-1
SDG: Eddy County New Mexico

HPLC/IC

Analysis Batch: 5399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-956-4	H-4 (0-6)	Soluble	Solid	300.0	5374
890-956-5	H-5 (0-6)	Soluble	Solid	300.0	5374
890-956-6	H-6 (0-6)	Soluble	Solid	300.0	5374
890-956-7	AH-1 (0-1)	Soluble	Solid	300.0	5374
890-956-8	AH-1 (1-1.5)	Soluble	Solid	300.0	5374
890-956-9	AH-2 (0-1)	Soluble	Solid	300.0	5374
890-956-10	AH-2 (1-1.5)	Soluble	Solid	300.0	5374
MB 880-5374/1-A	Method Blank	Soluble	Solid	300.0	5374
LCS 880-5374/2-A	Lab Control Sample	Soluble	Solid	300.0	5374
LCSD 880-5374/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5374

Analysis Batch: 5418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-956-1	H-1 (0-6)	Soluble	Solid	300.0	5370
890-956-2	H-2 (0-6)	Soluble	Solid	300.0	5370
890-956-3	H-3 (0-6)	Soluble	Solid	300.0	5370
MB 880-5370/1-A	Method Blank	Soluble	Solid	300.0	5370
LCS 880-5370/2-A	Lab Control Sample	Soluble	Solid	300.0	5370
LCSD 880-5370/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5370

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-956-1
Project/Site: Melson Federal #002 SDG: Eddy County New Mexico

Client Sample ID: H-1 (0-6) Lab Sample ID: 890-956-1

Date Collected: 07/16/21 00:00 **Matrix: Solid**
Date Received: 07/16/21 13:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5364	07/19/21 11:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5378	07/19/21 22:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			5389	07/19/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5354	07/20/21 02:21	AJ	XEN MID
Soluble	Leach	DI Leach			5370	07/19/21 11:49	SC	XEN MID
Soluble	Analysis	300.0		1	5418	07/20/21 13:50	CH	XEN MID

Client Sample ID: H-2 (0-6) Lab Sample ID: 890-956-2

Date Collected: 07/16/21 00:00 **Matrix: Solid**
Date Received: 07/16/21 13:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5364	07/19/21 11:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5378	07/19/21 22:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			5389	07/19/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5354	07/20/21 02:42	AJ	XEN MID
Soluble	Leach	DI Leach			5370	07/19/21 11:49	SC	XEN MID
Soluble	Analysis	300.0		1	5418	07/20/21 13:55	CH	XEN MID

Client Sample ID: H-3 (0-6) Lab Sample ID: 890-956-3

Date Collected: 07/16/21 00:00 **Matrix: Solid**
Date Received: 07/16/21 13:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5364	07/19/21 11:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5378	07/19/21 22:54	KL	XEN MID
Total/NA	Prep	8015NM Prep			5389	07/19/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5354	07/20/21 03:23	AJ	XEN MID
Soluble	Leach	DI Leach			5370	07/19/21 11:49	SC	XEN MID
Soluble	Analysis	300.0		1	5418	07/20/21 14:01	CH	XEN MID

Client Sample ID: H-4 (0-6) Lab Sample ID: 890-956-4

Date Collected: 07/16/21 00:00 **Matrix: Solid**
Date Received: 07/16/21 13:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5364	07/19/21 11:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5378	07/19/21 23:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			5389	07/19/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5354	07/20/21 03:44	AJ	XEN MID
Soluble	Leach	DI Leach			5374	07/19/21 12:21	SC	XEN MID
Soluble	Analysis	300.0		1	5399	07/20/21 01:01	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-956-1
Project/Site: Melson Federal #002 SDG: Eddy County New Mexico

Client Sample ID: H-5 (0-6) Lab Sample ID: 890-956-5

Date Collected: 07/16/21 00:00 **Matrix: Solid**
Date Received: 07/16/21 13:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5364	07/19/21 11:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5378	07/19/21 23:34	KL	XEN MID
Total/NA	Prep	8015NM Prep			5389	07/19/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5354	07/20/21 04:05	AJ	XEN MID
Soluble	Leach	DI Leach			5374	07/19/21 12:21	SC	XEN MID
Soluble	Analysis	300.0		1	5399	07/20/21 01:07	CH	XEN MID

Client Sample ID: H-6 (0-6) Lab Sample ID: 890-956-6

Date Collected: 07/16/21 00:00 **Matrix: Solid**
Date Received: 07/16/21 13:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5364	07/19/21 11:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5378	07/19/21 23:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			5389	07/19/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5354	07/20/21 04:26	AJ	XEN MID
Soluble	Leach	DI Leach			5374	07/19/21 12:21	SC	XEN MID
Soluble	Analysis	300.0		1	5399	07/20/21 01:12	CH	XEN MID

Client Sample ID: AH-1 (0-1) Lab Sample ID: 890-956-7

Date Collected: 07/16/21 00:00 **Matrix: Solid**
Date Received: 07/16/21 13:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5364	07/19/21 11:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5378	07/20/21 00:15	KL	XEN MID
Total/NA	Prep	8015NM Prep			5389	07/19/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5354	07/20/21 04:46	AJ	XEN MID
Soluble	Leach	DI Leach			5374	07/19/21 12:21	SC	XEN MID
Soluble	Analysis	300.0		50	5399	07/20/21 01:18	CH	XEN MID

Client Sample ID: AH-1 (1-1.5) Lab Sample ID: 890-956-8

Date Collected: 07/16/21 00:00 **Matrix: Solid**
Date Received: 07/16/21 13:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5364	07/19/21 11:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5378	07/20/21 00:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			5389	07/19/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5354	07/20/21 05:07	AJ	XEN MID
Soluble	Leach	DI Leach			5374	07/19/21 12:21	SC	XEN MID
Soluble	Analysis	300.0		20	5399	07/20/21 09:34	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002

Job ID: 890-956-1
SDG: Eddy County New Mexico

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

Lab Sample ID: 890-956-9
Matrix: Solid
Date Collected: 07/16/21 00:00
Date Received: 07/16/21 13:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5364	07/19/21 11:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5378	07/20/21 00:56	KL	XEN MID
Total/NA	Prep	8015NM Prep			5389	07/19/21 14:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1	5354	07/20/21 05:28	AJ	XEN MID
Soluble	Leach	DI Leach			5374	07/19/21 12:21	SC	XEN MID
Soluble	Analysis	300.0		1	5399	07/20/21 01:28	CH	XEN MID

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

Lab Sample ID: 890-956-10
Matrix: Solid
Date Collected: 07/16/21 00:00
Date Received: 07/16/21 13:01

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5364	07/19/21 11:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5378	07/20/21 01:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			5482	07/21/21 14:31	AJ	XEN MID
Total/NA	Analysis	8015B NM		1	5450	07/21/21 20:45	AJ	XEN MID
Soluble	Leach	DI Leach			5374	07/19/21 12:21	SC	XEN MID
Soluble	Analysis	300.0		1	5399	07/20/21 01:34	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc. Job ID: 890-956-1
Project/Site: Melson Federal #002 SDG: Eddy County New Mexico

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Tetra Tech, Inc. Job ID: 890-956-1
Project/Site: Melson Federal #002 SDG: Eddy County New Mexico

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002

Job ID: 890-956-1
SDG: Eddy County New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-956-1	H-1 (0-6)	Solid	07/16/21 00:00	07/16/21 13:01	0 - 6
890-956-2	H-2 (0-6)	Solid	07/16/21 00:00	07/16/21 13:01	0 - 6
890-956-3	H-3 (0-6)	Solid	07/16/21 00:00	07/16/21 13:01	0 - 6
890-956-4	H-4 (0-6)	Solid	07/16/21 00:00	07/16/21 13:01	0 - 6
890-956-5	H-5 (0-6)	Solid	07/16/21 00:00	07/16/21 13:01	0 - 6
890-956-6	H-6 (0-6)	Solid	07/16/21 00:00	07/16/21 13:01	0 - 6
890-956-7	AH-1 (0-1)	Solid	07/16/21 00:00	07/16/21 13:01	0 - 6
890-956-8	AH-1 (1-1.5)	Solid	07/16/21 00:00	07/16/21 13:01	1 - 1.5
890-956-9	AH-2 (0-1)	Solid	07/16/21 00:00	07/16/21 13:01	0 - 1
890-956-10	AH-2 (1-1.5)	Solid	07/16/21 00:00	07/16/21 13:01	1 - 1.5

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

890-956 Chain of Custody

7/21/2021

Client Name: EOG - Resources	Site Manager: Paula Tocora Alonso
Project Name: Melson Federal #002	
Project Location: (county, state) Eddy County, New Mexico	Project #: 212C-MD-02547
Invoice to: James Kennedy - EOG	
Receiving Laboratory: Xenco Eurofins	Sampler Signature: Ernest Munoz
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)
	H-1 (0-6")	7/16/21			X			X		
	H-2 (0-6")									
	H-3 (0-6")									
	H-4 (0-6")									
	H-5 (0-6")									
	H-6 (0-6")									
	AH-1 (0-1')									
	AH-1 (1-1.5')									
	AH-2 (0-1')									
	AH-2 (1-1.5')									

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
Asbestos
Hold

Relinquished by: Ernest Munoz	Date:	Time:	Received by: Cloe Cuff	Date: 7.16.21	Time: 1254
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature 5.2 / 5.0

REMARKS:

☒ RUSH: ~~Same Day 24 hr 48 hr~~ 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-956-1
SDG Number: Eddy County New Mexico

Login Number: 956
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	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: 890-956-1
SDG Number: Eddy County New Mexico

Login Number: 956
List Number: 2
Creator: Phillips, Kerianna

List Source: Eurofins Xenco, Midland
List Creation: 07/19/21 10:20 AM

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

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-5851-1
Laboratory Sample Delivery Group: Eddy Counrt NM
Client Project/Site: Melson Federal #002H

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

Attn: Clair Gonzales

JKramer

Authorized for release by:
9/13/2021 9:09:08 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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

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

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-5851-1
Project/Site: Melson Federal #002H SDG: Eddy Counrt 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, high 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
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

Job ID: 880-5851-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-5851-1

Receipt
The samples were received on 9/8/2021 10:33 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7645 and analytical batch 880-7670 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Method 8021B: Surrogate recovery for the following sample was outside control limits: Borehole-1 (24-25) (880-5851-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7729 and analytical batch 880-7728 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7639 and analytical batch 880-7682 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-5851-1
Project/Site: Melson Federal #002H SDG: Eddy Counrt NM

Client Sample ID: Borehole-1 (0-1) Lab Sample ID: 880-5851-1

Date Collected: 09/07/21 00:00 **Matrix: Solid**
Date Received: 09/08/21 10:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/09/21 11:58	09/10/21 04:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/09/21 11:58	09/10/21 04:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/09/21 11:58	09/10/21 04:35	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/09/21 11:58	09/10/21 04:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/09/21 11:58	09/10/21 04:35	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/09/21 11:58	09/10/21 04:35	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		09/09/21 11:58	09/10/21 04:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*09/09/21 11:58*	*09/10/21 04:35*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/09/21 11:58*	*09/10/21 04:35*	*1*

Method: 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		09/08/21 11:00	09/08/21 18:47	1
Diesel Range Organics (Over C10-C28)	**100**		49.9		mg/Kg		09/08/21 11:00	09/08/21 18:47	1
Oil Range Organics (Over C28-C36)	**53.4**		49.9		mg/Kg		09/08/21 11:00	09/08/21 18:47	1
Total TPH	**153**		49.9		mg/Kg		09/08/21 11:00	09/08/21 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*09/08/21 11:00*	*09/08/21 18:47*	*1*
o-Terphenyl	*104*		*70 - 130*	*09/08/21 11:00*	*09/08/21 18:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9070**	**F1**	101		mg/Kg			09/09/21 18:04	20

Client Sample ID: Borehole-1 (2-3) Lab Sample ID: 880-5851-2

Date Collected: 09/07/21 00:00 **Matrix: Solid**
Date Received: 09/08/21 10:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/09/21 11:58	09/10/21 04:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/09/21 11:58	09/10/21 04:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/09/21 11:58	09/10/21 04:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/09/21 11:58	09/10/21 04:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/09/21 11:58	09/10/21 04:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/09/21 11:58	09/10/21 04:56	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		09/09/21 11:58	09/10/21 04:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*09/09/21 11:58*	*09/10/21 04:56*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*09/09/21 11:58*	*09/10/21 04:56*	*1*

Method: 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		09/08/21 11:00	09/08/21 19:09	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

Client Sample ID: Borehole-1 (2-3)

Lab Sample ID: 880-5851-2
Matrix: Solid
Date Collected: 09/07/21 00:00
Date Received: 09/08/21 10:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	**69.5**		49.9		mg/Kg		09/08/21 11:00	09/08/21 19:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/08/21 11:00	09/08/21 19:09	1
Total TPH	**69.5**		49.9		mg/Kg		09/08/21 11:00	09/08/21 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*09/08/21 11:00*	*09/08/21 19:09*	*1*
o-Terphenyl	*102*		*70 - 130*	*09/08/21 11:00*	*09/08/21 19:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4160**		99.8		mg/Kg			09/09/21 18:21	20

Client Sample ID: Borehole-1 (4-5)

Lab Sample ID: 880-5851-3
Matrix: Solid
Date Collected: 09/07/21 00:00
Date Received: 09/08/21 10:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.199	U	0.199		mg/Kg		09/10/21 09:09	09/10/21 23:30	100
Toluene	<0.199	U	0.199		mg/Kg		09/10/21 09:09	09/10/21 23:30	100
Ethylbenzene	**0.529**		0.199		mg/Kg		09/10/21 09:09	09/10/21 23:30	100
m-Xylene & p-Xylene	**1.46**		0.398		mg/Kg		09/10/21 09:09	09/10/21 23:30	100
o-Xylene	**0.350**		0.199		mg/Kg		09/10/21 09:09	09/10/21 23:30	100
Xylenes, Total	**1.81**		0.398		mg/Kg		09/10/21 09:09	09/10/21 23:30	100
Total BTEX	**2.34**		0.398		mg/Kg		09/10/21 09:09	09/10/21 23:30	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*09/10/21 09:09*	*09/10/21 23:30*	*100*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*09/10/21 09:09*	*09/10/21 23:30*	*100*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**227**		49.8		mg/Kg		09/08/21 11:00	09/08/21 17:02	1
Diesel Range Organics (Over C10-C28)	**11400**		249		mg/Kg		09/08/21 11:00	09/09/21 08:43	5
Oil Range Organics (Over C28-C36)	**2370**		49.8		mg/Kg		09/08/21 11:00	09/08/21 17:02	1
Total TPH	**13300**		49.8		mg/Kg		09/08/21 11:00	09/08/21 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*09/08/21 11:00*	*09/08/21 17:02*	*1*
1-Chlorooctane	*117*		*70 - 130*	*09/08/21 11:00*	*09/09/21 08:43*	*5*
o-Terphenyl	*125*		*70 - 130*	*09/08/21 11:00*	*09/08/21 17:02*	*1*
o-Terphenyl	*122*		*70 - 130*	*09/08/21 11:00*	*09/09/21 08:43*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3700**		49.5		mg/Kg			09/09/21 18:26	10

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

Client Sample ID: Borehole-1 (6-7)

Lab Sample ID: 880-5851-4
Matrix: Solid
Date Collected: 09/07/21 00:00
Date Received: 09/08/21 10:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.201	U	0.201		mg/Kg		09/10/21 09:09	09/10/21 23:50	100
Toluene	<0.201	U	0.201		mg/Kg		09/10/21 09:09	09/10/21 23:50	100
Ethylbenzene	<0.201	U	0.201		mg/Kg		09/10/21 09:09	09/10/21 23:50	100
m-Xylene & p-Xylene	<0.402	U	0.402		mg/Kg		09/10/21 09:09	09/10/21 23:50	100
o-Xylene	<0.201	U	0.201		mg/Kg		09/10/21 09:09	09/10/21 23:50	100
Xylenes, Total	<0.402	U	0.402		mg/Kg		09/10/21 09:09	09/10/21 23:50	100
Total BTEX	<0.402	U	0.402		mg/Kg		09/10/21 09:09	09/10/21 23:50	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*09/10/21 09:09*	*09/10/21 23:50*	*100*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/10/21 09:09*	*09/10/21 23:50*	*100*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**101**		49.9		mg/Kg		09/08/21 11:00	09/08/21 17:23	1
Diesel Range Organics (Over C10-C28)	**4250**		49.9		mg/Kg		09/08/21 11:00	09/08/21 17:23	1
Oil Range Organics (Over C28-C36)	**868**		49.9		mg/Kg		09/08/21 11:00	09/08/21 17:23	1
Total TPH	**5220**		49.9		mg/Kg		09/08/21 11:00	09/08/21 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*09/08/21 11:00*	*09/08/21 17:23*	*1*
o-Terphenyl	*99*		*70 - 130*	*09/08/21 11:00*	*09/08/21 17:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4770**		50.3		mg/Kg			09/09/21 18:32	10

Client Sample ID: Borehole-1 (9-10)

Lab Sample ID: 880-5851-5
Matrix: Solid
Date Collected: 09/07/21 00:00
Date Received: 09/08/21 10:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.201	U	0.201		mg/Kg		09/10/21 09:09	09/11/21 00:11	100
Toluene	<0.201	U	0.201		mg/Kg		09/10/21 09:09	09/11/21 00:11	100
Ethylbenzene	<0.201	U	0.201		mg/Kg		09/10/21 09:09	09/11/21 00:11	100
m-Xylene & p-Xylene	<0.402	U	0.402		mg/Kg		09/10/21 09:09	09/11/21 00:11	100
o-Xylene	<0.201	U	0.201		mg/Kg		09/10/21 09:09	09/11/21 00:11	100
Xylenes, Total	<0.402	U	0.402		mg/Kg		09/10/21 09:09	09/11/21 00:11	100
Total BTEX	<0.402	U	0.402		mg/Kg		09/10/21 09:09	09/11/21 00:11	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*09/10/21 09:09*	*09/11/21 00:11*	*100*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/10/21 09:09*	*09/11/21 00:11*	*100*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**55.0**		50.0		mg/Kg		09/08/21 11:00	09/08/21 17:44	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

Client Sample ID: Borehole-1 (9-10)

Lab Sample ID: 880-5851-5
Matrix: Solid
Date Collected: 09/07/21 00:00
Date Received: 09/08/21 10:33

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	1390		50.0		mg/Kg		09/08/21 11:00	09/08/21 17:44	1
Oil Range Organics (Over C28-C36)	267		50.0		mg/Kg		09/08/21 11:00	09/08/21 17:44	1
Total TPH	1710		50.0		mg/Kg		09/08/21 11:00	09/08/21 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*09/08/21 11:00*	*09/08/21 17:44*	*1*
o-Terphenyl	*110*		*70 - 130*	*09/08/21 11:00*	*09/08/21 17:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8130		50.4		mg/Kg			09/09/21 18:37	10

Client Sample ID: Borehole-1 (14-15)

Lab Sample ID: 880-5851-6
Matrix: Solid
Date Collected: 09/07/21 00:00
Date Received: 09/08/21 10:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0994	U	0.0994		mg/Kg		09/10/21 09:09	09/11/21 00:31	50
Toluene	<0.0994	U	0.0994		mg/Kg		09/10/21 09:09	09/11/21 00:31	50
Ethylbenzene	<0.0994	U	0.0994		mg/Kg		09/10/21 09:09	09/11/21 00:31	50
m-Xylene & p-Xylene	<0.199	U	0.199		mg/Kg		09/10/21 09:09	09/11/21 00:31	50
o-Xylene	<0.0994	U	0.0994		mg/Kg		09/10/21 09:09	09/11/21 00:31	50
Xylenes, Total	<0.199	U	0.199		mg/Kg		09/10/21 09:09	09/11/21 00:31	50
Total BTEX	<0.199	U	0.199		mg/Kg		09/10/21 09:09	09/11/21 00:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*09/10/21 09:09*	*09/11/21 00:31*	*50*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/10/21 09:09*	*09/11/21 00:31*	*50*

Method: 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		09/08/21 11:00	09/08/21 18:05	1
Diesel Range Organics (Over C10-C28)	211		49.8		mg/Kg		09/08/21 11:00	09/08/21 18:05	1
Oil Range Organics (Over C28-C36)	80.1		49.8		mg/Kg		09/08/21 11:00	09/08/21 18:05	1
Total TPH	291		49.8		mg/Kg		09/08/21 11:00	09/08/21 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*09/08/21 11:00*	*09/08/21 18:05*	*1*
o-Terphenyl	*120*		*70 - 130*	*09/08/21 11:00*	*09/08/21 18:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11000		50.5		mg/Kg			09/09/21 18:54	10

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

Client Sample ID: Borehole-1 (19-20)

Lab Sample ID: 880-5851-7
Matrix: Solid
Date Collected: 09/07/21 00:00
Date Received: 09/08/21 10:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/08/21 13:51	09/09/21 10:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/08/21 13:51	09/09/21 10:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/08/21 13:51	09/09/21 10:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/08/21 13:51	09/09/21 10:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/08/21 13:51	09/09/21 10:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/08/21 13:51	09/09/21 10:45	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		09/08/21 13:51	09/09/21 10:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*09/08/21 13:51*	*09/09/21 10:45*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*09/08/21 13:51*	*09/09/21 10:45*	*1*

Method: 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		09/08/21 11:00	09/08/21 18:26	1
Diesel Range Organics (Over C10-C28)	**518**		50.0		mg/Kg		09/08/21 11:00	09/08/21 18:26	1
Oil Range Organics (Over C28-C36)	**95.9**		50.0		mg/Kg		09/08/21 11:00	09/08/21 18:26	1
Total TPH	**614**		50.0		mg/Kg		09/08/21 11:00	09/08/21 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*09/08/21 11:00*	*09/08/21 18:26*	*1*
o-Terphenyl	*110*		*70 - 130*	*09/08/21 11:00*	*09/08/21 18:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6550**		50.1		mg/Kg			09/09/21 19:00	10

Client Sample ID: Borehole-1 (24-25)

Lab Sample ID: 880-5851-8
Matrix: Solid
Date Collected: 09/07/21 00:00
Date Received: 09/08/21 10:33

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/08/21 13:51	09/09/21 11:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/08/21 13:51	09/09/21 11:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/08/21 13:51	09/09/21 11:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/08/21 13:51	09/09/21 11:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/08/21 13:51	09/09/21 11:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/08/21 13:51	09/09/21 11:05	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		09/08/21 13:51	09/09/21 11:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*09/08/21 13:51*	*09/09/21 11:05*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*09/08/21 13:51*	*09/09/21 11:05*	*1*

Method: 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		09/08/21 11:00	09/08/21 19:30	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

Client Sample ID: Borehole-1 (24-25)

Date Collected: 09/07/21 00:00
Date Received: 09/08/21 10:33

Lab Sample ID: 880-5851-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/08/21 11:00	09/08/21 19:30	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/08/21 11:00	09/08/21 19:30	1
Total TPH	<50.0	U	50.0		mg/Kg		09/08/21 11:00	09/08/21 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*09/08/21 11:00*	*09/08/21 19:30*	*1*
o-Terphenyl	*105*		*70 - 130*	*09/08/21 11:00*	*09/08/21 19:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4470**		25.1		mg/Kg			09/09/21 19:05	5

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-5804-A-1-G MS	Matrix Spike	111	98
880-5804-A-1-H MSD	Matrix Spike Duplicate	93	74
880-5851-1	Borehole-1 (0-1)	126	98
880-5851-2	Borehole-1 (2-3)	131 S1+	101
880-5851-3	Borehole-1 (4-5)	121	96
880-5851-4	Borehole-1 (6-7)	106	104
880-5851-5	Borehole-1 (9-10)	120	99
880-5851-6	Borehole-1 (14-15)	126	103
880-5851-7	Borehole-1 (19-20)	133 S1+	90
880-5851-8	Borehole-1 (24-25)	143 S1+	83
880-5902-A-21-B MS	Matrix Spike	138 S1+	84
880-5902-A-21-C MSD	Matrix Spike Duplicate	129	88
890-1230-A-2-C MS	Matrix Spike	126	93
890-1230-A-2-D MSD	Matrix Spike Duplicate	116	108
LCS 880-7645/1-A	Lab Control Sample	143 S1+	87
LCS 880-7698/1-A	Lab Control Sample	114	104
LCS 880-7729/1-A	Lab Control Sample	116	99
LCSD 880-7645/2-A	Lab Control Sample Dup	103	90
LCSD 880-7698/2-A	Lab Control Sample Dup	111	102
MB 880-7644/5-A	Method Blank	120	110
MB 880-7645/5-A	Method Blank	133 S1+	104
MB 880-7677/5-A	Method Blank	109	99
MB 880-7698/5-A	Method Blank	111	95
MB 880-7729/5-A	Method Blank	104	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID		
LCSD 880-7729/2-A	Lab Control Sample Dup		

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-5804-A-1-E MS	Matrix Spike	100	93
880-5804-A-1-F MSD	Matrix Spike Duplicate	91	84
880-5851-1	Borehole-1 (0-1)	103	104
880-5851-2	Borehole-1 (2-3)	98	102

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 880-5851-1
Project/Site: Melson Federal #002H SDG: Eddy Counrt NM

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-5851-3	Borehole-1 (4-5)	109	125										
880-5851-3	Borehole-1 (4-5)	117	122										
880-5851-4	Borehole-1 (6-7)	109	99										
880-5851-5	Borehole-1 (9-10)	113	110										
880-5851-6	Borehole-1 (14-15)	123	120										
880-5851-7	Borehole-1 (19-20)	111	110										
880-5851-8	Borehole-1 (24-25)	107	105										
LCS 880-7622/2-A	Lab Control Sample	109	105										
LCSD 880-7622/3-A	Lab Control Sample Dup	124	117										
MB 880-7622/1-A	Method Blank	102	112										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7644/5-A
Matrix: Solid
Analysis Batch: 7670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7644

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/08/21 11:47	09/08/21 19:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/08/21 11:47	09/08/21 19:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/08/21 11:47	09/08/21 19:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/08/21 11:47	09/08/21 19:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/08/21 11:47	09/08/21 19:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/08/21 11:47	09/08/21 19:59	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/08/21 11:47	09/08/21 19:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*09/08/21 11:47*	*09/08/21 19:59*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*09/08/21 11:47*	*09/08/21 19:59*	*1*

Lab Sample ID: MB 880-7645/5-A
Matrix: Solid
Analysis Batch: 7670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/08/21 11:57	09/09/21 07:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/08/21 11:57	09/09/21 07:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/08/21 11:57	09/09/21 07:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/08/21 11:57	09/09/21 07:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/08/21 11:57	09/09/21 07:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/08/21 11:57	09/09/21 07:33	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/08/21 11:57	09/09/21 07:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*09/08/21 11:57*	*09/09/21 07:33*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/08/21 11:57*	*09/09/21 07:33*	*1*

Lab Sample ID: LCS 880-7645/1-A
Matrix: Solid
Analysis Batch: 7670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7645

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09255		mg/Kg		93	70 - 130
Toluene	0.100	0.09254		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.1995		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1079		mg/Kg		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

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

Lab Sample ID: LCSD 880-7645/2-A
Matrix: Solid
Analysis Batch: 7670

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7645

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08256		mg/Kg		83	70 - 130	11	35
Toluene			0.100	0.09815		mg/Kg		98	70 - 130	6	35
Ethylbenzene			0.100	0.1055		mg/Kg		106	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1970		mg/Kg		99	70 - 130	1	35
o-Xylene			0.100	0.09939		mg/Kg		99	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-5804-A-1-G MS
Matrix: Solid
Analysis Batch: 7670

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7645

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	0.0218	F1 F2	0.0998	0.06053	F1	mg/Kg		39	70 - 130		
Toluene	0.0468	F1 F2	0.0998	0.05219	F1	mg/Kg		5	70 - 130		
Ethylbenzene	0.103	F1	0.0998	0.06099	F1	mg/Kg		-42	70 - 130		
m-Xylene & p-Xylene	0.280	F1 F2	0.200	0.1151	F1	mg/Kg		-83	70 - 130		
o-Xylene	0.0523	F1 F2	0.0998	0.07526	F1	mg/Kg		23	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-5804-A-1-H MSD
Matrix: Solid
Analysis Batch: 7670

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 7645

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0218	F1 F2	0.101	0.03166	F1 F2	mg/Kg		10	70 - 130	63	35
Toluene	0.0468	F1 F2	0.101	0.02481	F1 F2	mg/Kg		-22	70 - 130	71	35
Ethylbenzene	0.103	F1	0.101	0.05157	F1	mg/Kg		-51	70 - 130	17	35
m-Xylene & p-Xylene	0.280	F1 F2	0.202	0.03935	F1 F2	mg/Kg		-120	70 - 130	98	35
o-Xylene	0.0523	F1 F2	0.101	0.03104	F1 F2	mg/Kg		-21	70 - 130	83	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*

Lab Sample ID: MB 880-7677/5-A
Matrix: Solid
Analysis Batch: 7678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/09/21 08:23	09/09/21 12:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/09/21 08:23	09/09/21 12:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/09/21 08:23	09/09/21 12:36	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

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

Lab Sample ID: MB 880-7677/5-A
Matrix: Solid
Analysis Batch: 7678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/09/21 08:23	09/09/21 12:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/09/21 08:23	09/09/21 12:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/09/21 08:23	09/09/21 12:36	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/09/21 08:23	09/09/21 12:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*09/09/21 08:23*	*09/09/21 12:36*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/09/21 08:23*	*09/09/21 12:36*	*1*

Lab Sample ID: MB 880-7698/5-A
Matrix: Solid
Analysis Batch: 7678

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7698

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/09/21 11:58	09/09/21 23:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/09/21 11:58	09/09/21 23:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/09/21 11:58	09/09/21 23:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/09/21 11:58	09/09/21 23:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/09/21 11:58	09/09/21 23:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/09/21 11:58	09/09/21 23:48	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/09/21 11:58	09/09/21 23:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*09/09/21 11:58*	*09/09/21 23:48*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*09/09/21 11:58*	*09/09/21 23:48*	*1*

Lab Sample ID: LCS 880-7698/1-A
Matrix: Solid
Analysis Batch: 7678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7698

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08971		mg/Kg		90	70 - 130
Toluene	0.100	0.08453		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08606		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1811		mg/Kg		91	70 - 130
o-Xylene	0.100	0.09017		mg/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-7698/2-A
Matrix: Solid
Analysis Batch: 7678

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7698

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08407		mg/Kg		84	70 - 130	6	35
Toluene	0.100	0.07976		mg/Kg		80	70 - 130	6	35

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

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

Lab Sample ID: LCSD 880-7698/2-A
Matrix: Solid
Analysis Batch: 7678

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7698

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			0.100	0.07964		mg/Kg		80	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.1663		mg/Kg		83	70 - 130	9	35
o-Xylene			0.100	0.08340		mg/Kg		83	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-5902-A-21-B MS
Matrix: Solid
Analysis Batch: 7678

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7698

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.0998	0.02869	F1	mg/Kg		29	70 - 130
Toluene	<0.00199	U F1	0.0998	0.03475	F1	mg/Kg		35	70 - 130
Ethylbenzene	<0.00199	U F1	0.0998	0.03551	F1	mg/Kg		36	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.07596	F1	mg/Kg		38	70 - 130
o-Xylene	<0.00199	U F1	0.0998	0.04000	F1	mg/Kg		40	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: 880-5902-A-21-C MSD
Matrix: Solid
Analysis Batch: 7678

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 7698

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.101	0.02284	F1	mg/Kg		23	70 - 130	23	35
Toluene	<0.00199	U F1	0.101	0.03327	F1	mg/Kg		33	70 - 130	4	35
Ethylbenzene	<0.00199	U F1	0.101	0.03229	F1	mg/Kg		32	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.06718	F1	mg/Kg		33	70 - 130	12	35
o-Xylene	<0.00199	U F1	0.101	0.03739	F1	mg/Kg		37	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: MB 880-7729/5-A
Matrix: Solid
Analysis Batch: 7728

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7729

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/10/21 09:09	09/10/21 17:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/10/21 09:09	09/10/21 17:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/10/21 09:09	09/10/21 17:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/10/21 09:09	09/10/21 17:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/10/21 09:09	09/10/21 17:21	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

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

Lab Sample ID: MB 880-7729/5-A
Matrix: Solid
Analysis Batch: 7728

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7729

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/10/21 09:09	09/10/21 17:21	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/10/21 09:09	09/10/21 17:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*09/10/21 09:09*	*09/10/21 17:21*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*09/10/21 09:09*	*09/10/21 17:21*	*1*

Lab Sample ID: LCS 880-7729/1-A
Matrix: Solid
Analysis Batch: 7728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7729

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08645		mg/Kg		86	70 - 130		
Toluene			0.100	0.08777		mg/Kg		88	70 - 130		
Ethylbenzene			0.100	0.08937		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene			0.200	0.1902		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.09347		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-7729/2-A
Matrix: Solid
Analysis Batch: 7728

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7729

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08285		mg/Kg					
Toluene			0.100	0.08121		mg/Kg					
Ethylbenzene			0.100	0.08236		mg/Kg					
m-Xylene & p-Xylene			0.200	0.1748		mg/Kg					
o-Xylene			0.100	0.08603		mg/Kg					

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: 890-1230-A-2-C MS
Matrix: Solid
Analysis Batch: 7728

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7729

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U	0.101	0.08146		mg/Kg		81	70 - 130		
Toluene	<0.00200	U	0.101	0.08340		mg/Kg		83	70 - 130		
Ethylbenzene	<0.00200	U	0.101	0.08460		mg/Kg		84	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1801		mg/Kg		90	70 - 130		
o-Xylene	<0.00200	U	0.101	0.08900		mg/Kg		88	70 - 130		

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

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

Lab Sample ID: 890-1230-A-2-C MS
Matrix: Solid
Analysis Batch: 7728

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7729

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 890-1230-A-2-D MSD
Matrix: Solid
Analysis Batch: 7728

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 7729

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.07990		mg/Kg		80	70 - 130	2	35
Toluene	<0.00200	U	0.0994	0.07221		mg/Kg		73	70 - 130	14	35
Ethylbenzene	<0.00200	U	0.0994	0.07000		mg/Kg		70	70 - 130	19	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.1465		mg/Kg		74	70 - 130	21	35
o-Xylene	<0.00200	U	0.0994	0.07317		mg/Kg		74	70 - 130	20	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

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

Lab Sample ID: MB 880-7622/1-A
Matrix: Solid
Analysis Batch: 7630

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7622

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		09/07/21 16:33	09/08/21 10:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/07/21 16:33	09/08/21 10:39	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/07/21 16:33	09/08/21 10:39	1
Total TPH	<50.0	U	50.0		mg/Kg		09/07/21 16:33	09/08/21 10:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*102*		*70 - 130*	*09/07/21 16:33*	*09/08/21 10:39*	*1*
o-Terphenyl	*112*		*70 - 130*	*09/07/21 16:33*	*09/08/21 10:39*	*1*

Lab Sample ID: LCS 880-7622/2-A
Matrix: Solid
Analysis Batch: 7630

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7622

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	868.7		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	985.0		mg/Kg		99	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

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

Lab Sample ID: LCSD 880-7622/3-A
Matrix: Solid
Analysis Batch: 7630

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7622

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	974.9		mg/Kg		97	70 - 130	12	20
Diesel Range Organics (Over C10-C28)			1000	1119		mg/Kg		112	70 - 130	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*124*		*70 - 130*
o-Terphenyl	*117*		*70 - 130*

Lab Sample ID: 880-5804-A-1-E MS
Matrix: Solid
Analysis Batch: 7630

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7622

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	841.1		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	1007		mg/Kg		99	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Lab Sample ID: 880-5804-A-1-F MSD
Matrix: Solid
Analysis Batch: 7630

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 7622

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	791.2		mg/Kg		79	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	913.1		mg/Kg		89	70 - 130	10	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7639/1-A
Matrix: Solid
Analysis Batch: 7682

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			09/09/21 17:47	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-7639/2-A
Matrix: Solid
Analysis Batch: 7682

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	253.0		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-7639/3-A
Matrix: Solid
Analysis Batch: 7682

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	253.9		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-5851-1 MS
Matrix: Solid
Analysis Batch: 7682

Client Sample ID: Borehole-1 (0-1)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	9070	F1	5050	14680	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 880-5851-1 MSD
Matrix: Solid
Analysis Batch: 7682

Client Sample ID: Borehole-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	9070	F1	5050	14680	F1	mg/Kg		111	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

GC VOA

Prep Batch: 7644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7644/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 7645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7645/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7645/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7645/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5804-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
880-5804-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 7654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5851-7	Borehole-1 (19-20)	Total/NA	Solid	5035	
880-5851-8	Borehole-1 (24-25)	Total/NA	Solid	5035	

Analysis Batch: 7670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5851-7	Borehole-1 (19-20)	Total/NA	Solid	8021B	7654
880-5851-8	Borehole-1 (24-25)	Total/NA	Solid	8021B	7654
MB 880-7644/5-A	Method Blank	Total/NA	Solid	8021B	7644
MB 880-7645/5-A	Method Blank	Total/NA	Solid	8021B	7645
LCS 880-7645/1-A	Lab Control Sample	Total/NA	Solid	8021B	7645
LCSD 880-7645/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7645
880-5804-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	7645
880-5804-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7645

Prep Batch: 7677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7677/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 7678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5851-1	Borehole-1 (0-1)	Total/NA	Solid	8021B	7698
880-5851-2	Borehole-1 (2-3)	Total/NA	Solid	8021B	7698
MB 880-7677/5-A	Method Blank	Total/NA	Solid	8021B	7677
MB 880-7698/5-A	Method Blank	Total/NA	Solid	8021B	7698
LCS 880-7698/1-A	Lab Control Sample	Total/NA	Solid	8021B	7698
LCSD 880-7698/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7698
880-5902-A-21-B MS	Matrix Spike	Total/NA	Solid	8021B	7698
880-5902-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7698

Prep Batch: 7698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5851-1	Borehole-1 (0-1)	Total/NA	Solid	5035	
880-5851-2	Borehole-1 (2-3)	Total/NA	Solid	5035	
MB 880-7698/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7698/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7698/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5902-A-21-B MS	Matrix Spike	Total/NA	Solid	5035	
880-5902-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

GC VOA

Analysis Batch: 7728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5851-3	Borehole-1 (4-5)	Total/NA	Solid	8021B	7729
880-5851-4	Borehole-1 (6-7)	Total/NA	Solid	8021B	7729
880-5851-5	Borehole-1 (9-10)	Total/NA	Solid	8021B	7729
880-5851-6	Borehole-1 (14-15)	Total/NA	Solid	8021B	7729
MB 880-7729/5-A	Method Blank	Total/NA	Solid	8021B	7729
LCS 880-7729/1-A	Lab Control Sample	Total/NA	Solid	8021B	7729
LCSD 880-7729/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7729
890-1230-A-2-C MS	Matrix Spike	Total/NA	Solid	8021B	7729
890-1230-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7729

Prep Batch: 7729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5851-3	Borehole-1 (4-5)	Total/NA	Solid	5035	
880-5851-4	Borehole-1 (6-7)	Total/NA	Solid	5035	
880-5851-5	Borehole-1 (9-10)	Total/NA	Solid	5035	
880-5851-6	Borehole-1 (14-15)	Total/NA	Solid	5035	
MB 880-7729/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7729/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7729/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1230-A-2-C MS	Matrix Spike	Total/NA	Solid	5035	
890-1230-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 7622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5851-1	Borehole-1 (0-1)	Total/NA	Solid	8015NM Prep	
880-5851-2	Borehole-1 (2-3)	Total/NA	Solid	8015NM Prep	
880-5851-3	Borehole-1 (4-5)	Total/NA	Solid	8015NM Prep	
880-5851-4	Borehole-1 (6-7)	Total/NA	Solid	8015NM Prep	
880-5851-5	Borehole-1 (9-10)	Total/NA	Solid	8015NM Prep	
880-5851-6	Borehole-1 (14-15)	Total/NA	Solid	8015NM Prep	
880-5851-7	Borehole-1 (19-20)	Total/NA	Solid	8015NM Prep	
880-5851-8	Borehole-1 (24-25)	Total/NA	Solid	8015NM Prep	
MB 880-7622/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7622/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7622/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5804-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5804-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 7630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5851-1	Borehole-1 (0-1)	Total/NA	Solid	8015B NM	7622
880-5851-2	Borehole-1 (2-3)	Total/NA	Solid	8015B NM	7622
880-5851-3	Borehole-1 (4-5)	Total/NA	Solid	8015B NM	7622
880-5851-3	Borehole-1 (4-5)	Total/NA	Solid	8015B NM	7622
880-5851-4	Borehole-1 (6-7)	Total/NA	Solid	8015B NM	7622
880-5851-5	Borehole-1 (9-10)	Total/NA	Solid	8015B NM	7622
880-5851-6	Borehole-1 (14-15)	Total/NA	Solid	8015B NM	7622
880-5851-7	Borehole-1 (19-20)	Total/NA	Solid	8015B NM	7622
880-5851-8	Borehole-1 (24-25)	Total/NA	Solid	8015B NM	7622

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 880-5851-1
Project/Site: Melson Federal #002H SDG: Eddy Counrt NM

GC Semi VOA (Continued)

Analysis Batch: 7630 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7622/1-A	Method Blank	Total/NA	Solid	8015B NM	7622
LCS 880-7622/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7622
LCSD 880-7622/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7622
880-5804-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	7622
880-5804-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7622

HPLC/IC

Leach Batch: 7639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5851-1	Borehole-1 (0-1)	Soluble	Solid	DI Leach	
880-5851-2	Borehole-1 (2-3)	Soluble	Solid	DI Leach	
880-5851-3	Borehole-1 (4-5)	Soluble	Solid	DI Leach	
880-5851-4	Borehole-1 (6-7)	Soluble	Solid	DI Leach	
880-5851-5	Borehole-1 (9-10)	Soluble	Solid	DI Leach	
880-5851-6	Borehole-1 (14-15)	Soluble	Solid	DI Leach	
880-5851-7	Borehole-1 (19-20)	Soluble	Solid	DI Leach	
880-5851-8	Borehole-1 (24-25)	Soluble	Solid	DI Leach	
MB 880-7639/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7639/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7639/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5851-1 MS	Borehole-1 (0-1)	Soluble	Solid	DI Leach	
880-5851-1 MSD	Borehole-1 (0-1)	Soluble	Solid	DI Leach	

Analysis Batch: 7682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5851-1	Borehole-1 (0-1)	Soluble	Solid	300.0	7639
880-5851-2	Borehole-1 (2-3)	Soluble	Solid	300.0	7639
880-5851-3	Borehole-1 (4-5)	Soluble	Solid	300.0	7639
880-5851-4	Borehole-1 (6-7)	Soluble	Solid	300.0	7639
880-5851-5	Borehole-1 (9-10)	Soluble	Solid	300.0	7639
880-5851-6	Borehole-1 (14-15)	Soluble	Solid	300.0	7639
880-5851-7	Borehole-1 (19-20)	Soluble	Solid	300.0	7639
880-5851-8	Borehole-1 (24-25)	Soluble	Solid	300.0	7639
MB 880-7639/1-A	Method Blank	Soluble	Solid	300.0	7639
LCS 880-7639/2-A	Lab Control Sample	Soluble	Solid	300.0	7639
LCSD 880-7639/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7639
880-5851-1 MS	Borehole-1 (0-1)	Soluble	Solid	300.0	7639
880-5851-1 MSD	Borehole-1 (0-1)	Soluble	Solid	300.0	7639

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

Client Sample ID: Borehole-1 (0-1)
Date Collected: 09/07/21 00:00
Date Received: 09/08/21 10:33

Lab Sample ID: 880-5851-1
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			4.96 g	5 mL	7698	09/09/21 11:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7678	09/10/21 04:35	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7622	09/08/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7630	09/08/21 18:47	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	7639	09/08/21 10:45	SC	XEN MID
Soluble	Analysis	300.0		20			7682	09/09/21 18:04	CH	XEN MID

Client Sample ID: Borehole-1 (2-3)
Date Collected: 09/07/21 00:00
Date Received: 09/08/21 10:33

Lab Sample ID: 880-5851-2
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			4.97 g	5 mL	7698	09/09/21 11:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7678	09/10/21 04:56	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7622	09/08/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7630	09/08/21 19:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7639	09/08/21 10:45	SC	XEN MID
Soluble	Analysis	300.0		20			7682	09/09/21 18:21	CH	XEN MID

Client Sample ID: Borehole-1 (4-5)
Date Collected: 09/07/21 00:00
Date Received: 09/08/21 10:33

Lab Sample ID: 880-5851-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7729	09/10/21 09:09	MR	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	7728	09/10/21 23:30	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7622	09/08/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7630	09/08/21 17:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7622	09/08/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		5			7630	09/09/21 08:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7639	09/08/21 10:45	SC	XEN MID
Soluble	Analysis	300.0		10			7682	09/09/21 18:26	CH	XEN MID

Client Sample ID: Borehole-1 (6-7)
Date Collected: 09/07/21 00:00
Date Received: 09/08/21 10:33

Lab Sample ID: 880-5851-4
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			4.98 g	5 mL	7729	09/10/21 09:09	MR	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	7728	09/10/21 23:50	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7622	09/08/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7630	09/08/21 17:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	7639	09/08/21 10:45	SC	XEN MID
Soluble	Analysis	300.0		10			7682	09/09/21 18:32	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 880-5851-1
Project/Site: Melson Federal #002H SDG: Eddy Counrt NM

Client Sample ID: Borehole-1 (9-10) Lab Sample ID: 880-5851-5

Date Collected: 09/07/21 00:00 **Matrix: Solid**
Date Received: 09/08/21 10:33

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	7729	09/10/21 09:09	MR	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	7728	09/11/21 00:11	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7622	09/08/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7630	09/08/21 17:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7639	09/08/21 10:45	SC	XEN MID
Soluble	Analysis	300.0		10			7682	09/09/21 18:37	CH	XEN MID

Client Sample ID: Borehole-1 (14-15) Lab Sample ID: 880-5851-6

Date Collected: 09/07/21 00:00 **Matrix: Solid**
Date Received: 09/08/21 10:33

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	7729	09/10/21 09:09	MR	XEN MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	7728	09/11/21 00:31	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7622	09/08/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7630	09/08/21 18:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	7639	09/08/21 10:45	SC	XEN MID
Soluble	Analysis	300.0		10			7682	09/09/21 18:54	CH	XEN MID

Client Sample ID: Borehole-1 (19-20) Lab Sample ID: 880-5851-7

Date Collected: 09/07/21 00:00 **Matrix: Solid**
Date Received: 09/08/21 10:33

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	7654	09/08/21 13:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7670	09/09/21 10:45	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7622	09/08/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7630	09/08/21 18:26	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7639	09/08/21 10:45	SC	XEN MID
Soluble	Analysis	300.0		10			7682	09/09/21 19:00	CH	XEN MID

Client Sample ID: Borehole-1 (24-25) Lab Sample ID: 880-5851-8

Date Collected: 09/07/21 00:00 **Matrix: Solid**
Date Received: 09/08/21 10:33

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	7654	09/08/21 13:51	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7670	09/09/21 11:05	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7622	09/08/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7630	09/08/21 19:30	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	7639	09/08/21 10:45	SC	XEN MID
Soluble	Analysis	300.0		5			7682	09/09/21 19:05	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-5851-1
SDG: Eddy Counrt NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-5851-1	Borehole-1 (0-1)	Solid	09/07/21 00:00	09/08/21 10:33
880-5851-2	Borehole-1 (2-3)	Solid	09/07/21 00:00	09/08/21 10:33
880-5851-3	Borehole-1 (4-5)	Solid	09/07/21 00:00	09/08/21 10:33
880-5851-4	Borehole-1 (6-7)	Solid	09/07/21 00:00	09/08/21 10:33
880-5851-5	Borehole-1 (9-10)	Solid	09/07/21 00:00	09/08/21 10:33
880-5851-6	Borehole-1 (14-15)	Solid	09/07/21 00:00	09/08/21 10:33
880-5851-7	Borehole-1 (19-20)	Solid	09/07/21 00:00	09/08/21 10:33
880-5851-8	Borehole-1 (24-25)	Solid	09/07/21 00:00	09/08/21 10:33

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

4000 N Big Spring St
401 Midland,Texas
Tel (432) 682-4
Fax (432) 682-3

880-5851 Chain of Custody

Page 1 of 3

880-5851

9/13/2021

Client Name	EOG Resources
Site Manager	Paula Tocora
Project Name	Melson Federal #002H
Project Location (county, state)	Eddy Co, NM
Project #	212C-MD-02547
Invoice to	James Kennedy - EOG
Receiving Laboratory	Xenco Eurofines
Sampler Signature	Ashton Thielke
Comments	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
	Borehole-1 (0-1)	9/7/2021			X				X			1	
	Borehole-1 (2-3)	9/7/2021			X				X			1	
	Borehole-1 (4-5)	9/7/2021			X				X			1	
	Borehole-1 (6-7)	9/7/2021			X				X			1	
	Borehole-1 (9-10)	9/7/2021			X				X			1	
	Borehole-1 (14-15)	9/7/2021			X				X			1	
	Borehole-1 (19-20)	9/7/2021			X				X			1	
	Borehole-1 (24-25)	9/7/2021			X				X			1	

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	PCBs 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos			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							

Page 29 of 30

Relinquished by	Date	Time	Received by	Date	Time
	9/8/21	1027		9/8/21	1027
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time

LAB USE ONLY

Sample Temperature 0/0.5 +0.5

REMARKS:

☒ RUSH Same Day 24 hr 48 hr **72 hr**

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-5851-1
SDG Number: Eddy Counrt NM

Login Number: 5851
List Number: 1
Creator: Phillips, Kerianna

List Source: Eurofins Xenco, 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.	False	No time on COC or sample containers
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-6271-1
Laboratory Sample Delivery Group: Eddy Co, NM
Client Project/Site: Melson Federal #002H

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

Attn: Clair Gonzales

JKramer

Authorized for release by:
9/22/2021 1:58:58 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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

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

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Laboratory Job ID: 880-6271-1
SDG: Eddy Co, NM

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-6271-1
Project/Site: Melson Federal #002H SDG: Eddy Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6271-1
SDG: Eddy Co, NM

Job ID: 880-6271-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-6271-1

Receipt
The samples were received on 9/20/2021 11:43 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8173 and analytical batch 880-8207 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-8127 and analytical batch 880-8200 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.

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6271-1
SDG: Eddy Co, NM

Client Sample ID: BH-1 (19.5')

Lab Sample ID: 880-6271-1
Matrix: Solid
Date Collected: 09/17/21 13:00
Date Received: 09/20/21 11:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200		mg/Kg		09/21/21 09:06	09/21/21 16:33	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		09/21/21 09:06	09/21/21 16:33	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		09/21/21 09:06	09/21/21 16:33	1
m-Xylene & p-Xylene	<0.00401	U F1	0.00401		mg/Kg		09/21/21 09:06	09/21/21 16:33	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		09/21/21 09:06	09/21/21 16:33	1
Xylenes, Total	<0.00401	U F1	0.00401		mg/Kg		09/21/21 09:06	09/21/21 16:33	1
Total BTEX	<0.00401	U F1	0.00401		mg/Kg		09/21/21 09:06	09/21/21 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*09/21/21 09:06*	*09/21/21 16:33*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/21/21 09:06*	*09/21/21 16:33*	*1*

Method: 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		09/20/21 16:21	09/21/21 18:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/20/21 16:21	09/21/21 18:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/20/21 16:21	09/21/21 18:49	1
Total TPH	<49.9	U	49.9		mg/Kg		09/20/21 16:21	09/21/21 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*09/20/21 16:21*	*09/21/21 18:49*	*1*
o-Terphenyl	*108*		*70 - 130*	*09/20/21 16:21*	*09/21/21 18:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3700**	**F1**	24.9		mg/Kg			09/21/21 20:11	5

Client Sample ID: SW-1-East

Lab Sample ID: 880-6271-2
Matrix: Solid
Date Collected: 09/17/21 13:10
Date Received: 09/20/21 11:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/21/21 09:06	09/21/21 16:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/21/21 09:06	09/21/21 16:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/21/21 09:06	09/21/21 16:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/21/21 09:06	09/21/21 16:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/21/21 09:06	09/21/21 16:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/21/21 09:06	09/21/21 16:53	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		09/21/21 09:06	09/21/21 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*09/21/21 09:06*	*09/21/21 16:53*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*09/21/21 09:06*	*09/21/21 16:53*	*1*

Method: 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		09/20/21 16:21	09/21/21 19:10	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6271-1
SDG: Eddy Co, NM

Client Sample ID: SW-1-East

Lab Sample ID: 880-6271-2
Date Collected: 09/17/21 13:10
Matrix: Solid
Date Received: 09/20/21 11:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/20/21 16:21	09/21/21 19:10	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/20/21 16:21	09/21/21 19:10	1
Total TPH	<49.8	U	49.8		mg/Kg		09/20/21 16:21	09/21/21 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*09/20/21 16:21*	*09/21/21 19:10*	*1*
o-Terphenyl	*112*		*70 - 130*	*09/20/21 16:21*	*09/21/21 19:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5780**		49.5		mg/Kg			09/21/21 20:28	10

Client Sample ID: SW-2 (South)

Lab Sample ID: 880-6271-3
Date Collected: 09/17/21 13:20
Matrix: Solid
Date Received: 09/20/21 11:43

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:06	09/21/21 17:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:06	09/21/21 17:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:06	09/21/21 17:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/21/21 09:06	09/21/21 17:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:06	09/21/21 17:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/21/21 09:06	09/21/21 17:14	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/21/21 09:06	09/21/21 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/21/21 09:06*	*09/21/21 17:14*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*09/21/21 09:06*	*09/21/21 17:14*	*1*

Method: 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		09/20/21 16:21	09/21/21 19:32	1
Diesel Range Organics (Over C10-C28)	**53.1**		50.0		mg/Kg		09/20/21 16:21	09/21/21 19:32	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/21 16:21	09/21/21 19:32	1
Total TPH	**53.1**		50.0		mg/Kg		09/20/21 16:21	09/21/21 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*09/20/21 16:21*	*09/21/21 19:32*	*1*
o-Terphenyl	*116*		*70 - 130*	*09/20/21 16:21*	*09/21/21 19:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6270**		50.0		mg/Kg			09/21/21 20:34	10

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6271-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-6271-1	BH-1 (19.5')	92	99
880-6271-1 MS	BH-1 (19.5')	90	81
880-6271-1 MSD	BH-1 (19.5')	124	100
880-6271-2	SW-1-East	115	113
880-6271-3	SW-2 (South)	103	87
LCS 880-8173/1-A	Lab Control Sample	88	83
LCSD 880-8173/2-A	Lab Control Sample Dup	99	92
MB 880-8173/5-A	Method Blank	120	127

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-6271-1	BH-1 (19.5')	98	108
880-6271-2	SW-1-East	99	112
880-6271-3	SW-2 (South)	103	116
880-6272-A-41-F MS	Matrix Spike	96	97
880-6272-A-41-G MSD	Matrix Spike Duplicate	98	99
LCS 880-8154/2-A	Lab Control Sample	96	101
LCSD 880-8154/3-A	Lab Control Sample Dup	103	110
MB 880-8154/1-A	Method Blank	93	106

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6271-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8173/5-A
Matrix: Solid
Analysis Batch: 8207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8173

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:06	09/21/21 16:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:06	09/21/21 16:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:06	09/21/21 16:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/21/21 09:06	09/21/21 16:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/21/21 09:06	09/21/21 16:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/21/21 09:06	09/21/21 16:11	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/21/21 09:06	09/21/21 16:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*09/21/21 09:06*	*09/21/21 16:11*	*1*
1,4-Difluorobenzene (Surr)	*127*		*70 - 130*	*09/21/21 09:06*	*09/21/21 16:11*	*1*

Lab Sample ID: LCS 880-8173/1-A
Matrix: Solid
Analysis Batch: 8207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8173

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09661		mg/Kg		97	70 - 130		
Toluene			0.100	0.08381		mg/Kg		84	70 - 130		
Ethylbenzene			0.100	0.08625		mg/Kg		86	70 - 130		
m-Xylene & p-Xylene			0.200	0.1571		mg/Kg		79	70 - 130		
o-Xylene			0.100	0.07448		mg/Kg		74	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*

Lab Sample ID: LCSD 880-8173/2-A
Matrix: Solid
Analysis Batch: 8207

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 8173

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09055		mg/Kg		91	70 - 130	6	35
Toluene			0.100	0.09868		mg/Kg		99	70 - 130	16	35
Ethylbenzene			0.100	0.1023		mg/Kg		102	70 - 130	17	35
m-Xylene & p-Xylene			0.200	0.1812		mg/Kg		91	70 - 130	14	35
o-Xylene			0.100	0.08524		mg/Kg		85	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 880-6271-1 MS
Matrix: Solid
Analysis Batch: 8207

Client Sample ID: BH-1 (19.5')
Prep Type: Total/NA
Prep Batch: 8173

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U F2 F1	0.0996	<0.00199	U F1	mg/Kg		1	70 - 130		

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6271-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-6271-1 MS
Matrix: Solid
Analysis Batch: 8207

Client Sample ID: BH-1 (19.5')
Prep Type: Total/NA
Prep Batch: 8173

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00200	U F1	0.0996	0.05483	F1	mg/Kg		55	70 - 130
Ethylbenzene	<0.00200	U F1	0.0996	0.05464	F1	mg/Kg		54	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.09997	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00200	U F1	0.0996	0.04740	F1	mg/Kg		48	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*

Lab Sample ID: 880-6271-1 MSD
Matrix: Solid
Analysis Batch: 8207

Client Sample ID: BH-1 (19.5')
Prep Type: Total/NA
Prep Batch: 8173

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.0994	0.02583	F2 F1	mg/Kg		26	70 - 130	185	35
Toluene	<0.00200	U F1	0.0994	0.05591	F1	mg/Kg		56	70 - 130	2	35
Ethylbenzene	<0.00200	U F1	0.0994	0.05377	F1	mg/Kg		53	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.09867	F1	mg/Kg		50	70 - 130	1	35
o-Xylene	<0.00200	U F1	0.0994	0.04935	F1	mg/Kg		50	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

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

Lab Sample ID: MB 880-8154/1-A
Matrix: Solid
Analysis Batch: 8183

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8154

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		09/20/21 16:21	09/21/21 11:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/20/21 16:21	09/21/21 11:00	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/20/21 16:21	09/21/21 11:00	1
Total TPH	<50.0	U	50.0		mg/Kg		09/20/21 16:21	09/21/21 11:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*09/20/21 16:21*	*09/21/21 11:00*	*1*
o-Terphenyl	*106*		*70 - 130*	*09/20/21 16:21*	*09/21/21 11:00*	*1*

Lab Sample ID: LCS 880-8154/2-A
Matrix: Solid
Analysis Batch: 8183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8154

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	972.2		mg/Kg		97	70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6271-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-8154/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 8183 — **Prep Batch: 8154**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics (Over C10-C28)			1000	1003		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Lab Sample ID: LCSD 880-8154/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 8183 — **Prep Batch: 8154**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	930.8		mg/Kg		93	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	995.5		mg/Kg		100	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: 880-6272-A-41-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 8183 — **Prep Batch: 8154**

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	997	895.6		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	944.8		mg/Kg		95	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: 880-6272-A-41-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 8183 — **Prep Batch: 8154**

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	999	930.0		mg/Kg		93	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	973.3		mg/Kg		97	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6271-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8127/1-A
Matrix: Solid
Analysis Batch: 8200

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			09/21/21 19:54	1

Lab Sample ID: LCS 880-8127/2-A
Matrix: Solid
Analysis Batch: 8200

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	255.9		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-8127/3-A
Matrix: Solid
Analysis Batch: 8200

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	256.2		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-6271-1 MS
Matrix: Solid
Analysis Batch: 8200

Client Sample ID: BH-1 (19.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	3700	F1	1240	5110	F1	mg/Kg		113	90 - 110		

Lab Sample ID: 880-6271-1 MSD
Matrix: Solid
Analysis Batch: 8200

Client Sample ID: BH-1 (19.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3700	F1	1240	5118	F1	mg/Kg		114	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6271-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 8173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6271-1	BH-1 (19.5')	Total/NA	Solid	5035	
880-6271-2	SW-1-East	Total/NA	Solid	5035	
880-6271-3	SW-2 (South)	Total/NA	Solid	5035	
MB 880-8173/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8173/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8173/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6271-1 MS	BH-1 (19.5')	Total/NA	Solid	5035	
880-6271-1 MSD	BH-1 (19.5')	Total/NA	Solid	5035	

Analysis Batch: 8207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6271-1	BH-1 (19.5')	Total/NA	Solid	8021B	8173
880-6271-2	SW-1-East	Total/NA	Solid	8021B	8173
880-6271-3	SW-2 (South)	Total/NA	Solid	8021B	8173
MB 880-8173/5-A	Method Blank	Total/NA	Solid	8021B	8173
LCS 880-8173/1-A	Lab Control Sample	Total/NA	Solid	8021B	8173
LCSD 880-8173/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8173
880-6271-1 MS	BH-1 (19.5')	Total/NA	Solid	8021B	8173
880-6271-1 MSD	BH-1 (19.5')	Total/NA	Solid	8021B	8173

GC Semi VOA

Prep Batch: 8154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6271-1	BH-1 (19.5')	Total/NA	Solid	8015NM Prep	
880-6271-2	SW-1-East	Total/NA	Solid	8015NM Prep	
880-6271-3	SW-2 (South)	Total/NA	Solid	8015NM Prep	
MB 880-8154/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8154/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8154/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6272-A-41-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6272-A-41-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 8183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6271-1	BH-1 (19.5')	Total/NA	Solid	8015B NM	8154
880-6271-2	SW-1-East	Total/NA	Solid	8015B NM	8154
880-6271-3	SW-2 (South)	Total/NA	Solid	8015B NM	8154
MB 880-8154/1-A	Method Blank	Total/NA	Solid	8015B NM	8154
LCS 880-8154/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8154
LCSD 880-8154/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8154
880-6272-A-41-F MS	Matrix Spike	Total/NA	Solid	8015B NM	8154
880-6272-A-41-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8154

HPLC/IC

Leach Batch: 8127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6271-1	BH-1 (19.5')	Soluble	Solid	DI Leach	
880-6271-2	SW-1-East	Soluble	Solid	DI Leach	
880-6271-3	SW-2 (South)	Soluble	Solid	DI Leach	
MB 880-8127/1-A	Method Blank	Soluble	Solid	DI Leach	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6271-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 8127 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-8127/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8127/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6271-1 MS	BH-1 (19.5')	Soluble	Solid	DI Leach	
880-6271-1 MSD	BH-1 (19.5')	Soluble	Solid	DI Leach	

Analysis Batch: 8200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6271-1	BH-1 (19.5')	Soluble	Solid	300.0	8127
880-6271-2	SW-1-East	Soluble	Solid	300.0	8127
880-6271-3	SW-2 (South)	Soluble	Solid	300.0	8127
MB 880-8127/1-A	Method Blank	Soluble	Solid	300.0	8127
LCS 880-8127/2-A	Lab Control Sample	Soluble	Solid	300.0	8127
LCSD 880-8127/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8127
880-6271-1 MS	BH-1 (19.5')	Soluble	Solid	300.0	8127
880-6271-1 MSD	BH-1 (19.5')	Soluble	Solid	300.0	8127

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6271-1
SDG: Eddy Co, NM

Client Sample ID: BH-1 (19.5')

Lab Sample ID: 880-6271-1
Matrix: Solid
Date Collected: 09/17/21 13:00
Date Received: 09/20/21 11:43

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	8173	09/21/21 09:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/21/21 16:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8154	09/20/21 16:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8183	09/21/21 18:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8127	09/20/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		5			8200	09/21/21 20:11	CH	XEN MID

Client Sample ID: SW-1-East

Lab Sample ID: 880-6271-2
Matrix: Solid
Date Collected: 09/17/21 13:10
Date Received: 09/20/21 11:43

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	8173	09/21/21 09:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/21/21 16:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8154	09/20/21 16:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8183	09/21/21 19:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8127	09/20/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		10			8200	09/21/21 20:28	CH	XEN MID

Client Sample ID: SW-2 (South)

Lab Sample ID: 880-6271-3
Matrix: Solid
Date Collected: 09/17/21 13:20
Date Received: 09/20/21 11:43

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	8173	09/21/21 09:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8207	09/21/21 17:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8154	09/20/21 16:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8183	09/21/21 19:32	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8127	09/20/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		10			8200	09/21/21 20:34	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6271-1
SDG: Eddy Co, NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6271-1
SDG: Eddy Co, NM

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6271-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-6271-1	BH-1 (19.5')	Solid	09/17/21 13:00	09/20/21 11:43
880-6271-2	SW-1-East	Solid	09/17/21 13:10	09/20/21 11:43
880-6271-3	SW-2 (South)	Solid	09/17/21 13:20	09/20/21 11:43

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 West Wall St, Suite 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

880-6271 Chain of Custody

1 of 1

9/22/2021

Client Name	EOG Resources
Site Manager	Paula Tocora
Project Name	Melson Federal #002H
Project Location (county, state)	Eddy Co, NM
Project #	212C-MD-02547
Invoice to	James Kennedy - EOG
Receiving Laboratory	Xenco Eurofines
Sampler Signature	Ashton Thielke
Comments	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	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	Asbestos			Hold
	BH-1 (19 5')	9/17/2021	13:00		X				X			1		X		X												X						
	SW-1 - East	9/17/2021	13:10		X				X			1		X		X												X						
	SW-2 (south)	9/17/2021	13:20		X				X			1		X		X												X						

Relinquished by: Ashton Thielke	Date	Time	Received by: Paula Tocora Alonso
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:

Relinquished by:	Date	Time	Received by:
Relinquished by:	9/20/21	1105	Received by: 9-2021 11:05
Relinquished by	Date	Time	Received by: Date Time

LAB USE ONLY

Sample Temperature

4.6 °C

REMARKS:

- ☐ RUSH Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-6271-1
SDG Number: Eddy Co, NM

Login Number: 6271
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Xenco, 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	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-6305-1
Laboratory Sample Delivery Group: Eddy Co,NM
Client Project/Site: Melson Federal #002H

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

Attn: Clair Gonzales

JKramer

Authorized for release by:
9/27/2021 11:37:39 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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

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

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Laboratory Job ID: 880-6305-1
SDG: Eddy Co,NM

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-6305-1
Project/Site: Melson Federal #002H SDG: Eddy Co,NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
¤	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: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

Job ID: 880-6305-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-6305-1

Receipt
The samples were received on 9/21/2021 9:58 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8198 and analytical batch 880-8262 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-2 (19.5') (880-6305-1), SW-4 (North) (880-6305-2), SW-6 (North) (880-6305-4), SW-7 (West) (880-6305-5), SW-10 (South) (880-6305-8), SW-11 (South) (880-6305-9) and (880-6345-A-8-E). 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8210 and analytical batch 880-8175 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

Client Sample ID: BH-2 (19.5')

Lab Sample ID: 880-6305-1
Matrix: Solid
Date Collected: 09/20/21 13:00
Date Received: 09/21/21 09:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:44	09/23/21 04:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:44	09/23/21 04:38	1
Ethylbenzene	**0.0118**		0.00200		mg/Kg		09/22/21 09:44	09/23/21 04:38	1
m-Xylene & p-Xylene	**0.0412**		0.00401		mg/Kg		09/22/21 09:44	09/23/21 04:38	1
o-Xylene	**0.0350**		0.00200		mg/Kg		09/22/21 09:44	09/23/21 04:38	1
Xylenes, Total	**0.0762**		0.00401		mg/Kg		09/22/21 09:44	09/23/21 04:38	1
Total BTEX	**0.0880**		0.00401		mg/Kg		09/22/21 09:44	09/23/21 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*162*	*S1+*	*70 - 130*	*09/22/21 09:44*	*09/23/21 04:38*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*09/22/21 09:44*	*09/23/21 04:38*	*1*

Method: 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		09/21/21 14:14	09/21/21 23:42	1
Diesel Range Organics (Over C10-C28)	**630**		50.0		mg/Kg		09/21/21 14:14	09/21/21 23:42	1
Oil Range Organics (Over C28-C36)	**69.5**		50.0		mg/Kg		09/21/21 14:14	09/21/21 23:42	1
Total TPH	**700**		50.0		mg/Kg		09/21/21 14:14	09/21/21 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*09/21/21 14:14*	*09/21/21 23:42*	*1*
o-Terphenyl	*102*		*70 - 130*	*09/21/21 14:14*	*09/21/21 23:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5850**		49.5		mg/Kg			09/24/21 17:37	10

Client Sample ID: SW-4 (North)

Lab Sample ID: 880-6305-2
Matrix: Solid
Date Collected: 09/20/21 13:10
Date Received: 09/21/21 09:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/22/21 09:44	09/23/21 04:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/22/21 09:44	09/23/21 04:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/22/21 09:44	09/23/21 04:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/22/21 09:44	09/23/21 04:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/22/21 09:44	09/23/21 04:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/22/21 09:44	09/23/21 04:59	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		09/22/21 09:44	09/23/21 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*09/22/21 09:44*	*09/23/21 04:59*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*09/22/21 09:44*	*09/23/21 04:59*	*1*

Method: 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		09/21/21 14:14	09/22/21 00:03	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

Client Sample ID: SW-4 (North)

Lab Sample ID: 880-6305-2
Matrix: Solid
Date Collected: 09/20/21 13:10
Date Received: 09/21/21 09:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/21 14:14	09/22/21 00:03	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/21 14:14	09/22/21 00:03	1
Total TPH	<49.9	U	49.9		mg/Kg		09/21/21 14:14	09/22/21 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*09/21/21 14:14*	*09/22/21 00:03*	*1*
o-Terphenyl	*105*		*70 - 130*	*09/21/21 14:14*	*09/22/21 00:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5940**		49.7		mg/Kg			09/24/21 17:54	10

Client Sample ID: SW-5 (North)

Lab Sample ID: 880-6305-3
Matrix: Solid
Date Collected: 09/20/21 13:20
Date Received: 09/21/21 09:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/22/21 09:44	09/23/21 05:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/22/21 09:44	09/23/21 05:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/22/21 09:44	09/23/21 05:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/22/21 09:44	09/23/21 05:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/22/21 09:44	09/23/21 05:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/22/21 09:44	09/23/21 05:19	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		09/22/21 09:44	09/23/21 05:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*09/22/21 09:44*	*09/23/21 05:19*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*09/22/21 09:44*	*09/23/21 05:19*	*1*

Method: 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		09/21/21 14:14	09/22/21 00:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/21 14:14	09/22/21 00:23	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/21 14:14	09/22/21 00:23	1
Total TPH	<49.9	U	49.9		mg/Kg		09/21/21 14:14	09/22/21 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*09/21/21 14:14*	*09/22/21 00:23*	*1*
o-Terphenyl	*108*		*70 - 130*	*09/21/21 14:14*	*09/22/21 00:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8660**		49.8		mg/Kg			09/24/21 18:00	10

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

Client Sample ID: SW-6 (North)

Lab Sample ID: 880-6305-4
Matrix: Solid
Date Collected: 09/20/21 13:00
Date Received: 09/21/21 09:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00335		0.00200		mg/Kg		09/22/21 09:44	09/23/21 05:39	1
Toluene	0.00721		0.00200		mg/Kg		09/22/21 09:44	09/23/21 05:39	1
Ethylbenzene	0.0350		0.00200		mg/Kg		09/22/21 09:44	09/23/21 05:39	1
m-Xylene & p-Xylene	0.130		0.00400		mg/Kg		09/22/21 09:44	09/23/21 05:39	1
o-Xylene	0.0934		0.00200		mg/Kg		09/22/21 09:44	09/23/21 05:39	1
Xylenes, Total	0.223		0.00400		mg/Kg		09/22/21 09:44	09/23/21 05:39	1
Total BTEX	0.269		0.00400		mg/Kg		09/22/21 09:44	09/23/21 05:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*177*	*S1+*	*70 - 130*	*09/22/21 09:44*	*09/23/21 05:39*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*09/22/21 09:44*	*09/23/21 05:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<249	U	249		mg/Kg		09/21/21 14:14	09/22/21 00:43	5
Diesel Range Organics (Over C10-C28)	3040		249		mg/Kg		09/21/21 14:14	09/22/21 00:43	5
Oil Range Organics (Over C28-C36)	297		249		mg/Kg		09/21/21 14:14	09/22/21 00:43	5
Total TPH	3340		249		mg/Kg		09/21/21 14:14	09/22/21 00:43	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*09/21/21 14:14*	*09/22/21 00:43*	*5*
o-Terphenyl	*98*		*70 - 130*	*09/21/21 14:14*	*09/22/21 00:43*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9850		50.0		mg/Kg			09/24/21 18:17	10

Client Sample ID: SW-7 (West)

Lab Sample ID: 880-6305-5
Matrix: Solid
Date Collected: 09/20/21 13:10
Date Received: 09/21/21 09:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00238		0.00202		mg/Kg		09/22/21 09:44	09/23/21 06:00	1
Toluene	0.0129		0.00202		mg/Kg		09/22/21 09:44	09/23/21 06:00	1
Ethylbenzene	0.0553		0.00202		mg/Kg		09/22/21 09:44	09/23/21 06:00	1
m-Xylene & p-Xylene	0.288		0.00403		mg/Kg		09/22/21 09:44	09/23/21 06:00	1
o-Xylene	0.176		0.00202		mg/Kg		09/22/21 09:44	09/23/21 06:00	1
Xylenes, Total	0.464		0.00403		mg/Kg		09/22/21 09:44	09/23/21 06:00	1
Total BTEX	0.535		0.00403		mg/Kg		09/22/21 09:44	09/23/21 06:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*217*	*S1+*	*70 - 130*	*09/22/21 09:44*	*09/23/21 06:00*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*09/22/21 09:44*	*09/23/21 06:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U	250		mg/Kg		09/21/21 14:14	09/22/21 01:03	5

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

Client Sample ID: SW-7 (West)

Lab Sample ID: 880-6305-5
Matrix: Solid
Date Collected: 09/20/21 13:10
Date Received: 09/21/21 09:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	**4930**		250		mg/Kg		09/21/21 14:14	09/22/21 01:03	5
Oil Range Organics (Over C28-C36)	**506**		250		mg/Kg		09/21/21 14:14	09/22/21 01:03	5
Total TPH	**5440**		250		mg/Kg		09/21/21 14:14	09/22/21 01:03	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*09/21/21 14:14*	*09/22/21 01:03*	*5*
o-Terphenyl	*105*		*70 - 130*	*09/21/21 14:14*	*09/22/21 01:03*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5430**		50.2		mg/Kg			09/24/21 18:22	10

Client Sample ID: SW-8 (West)

Lab Sample ID: 880-6305-6
Matrix: Solid
Date Collected: 09/20/21 13:00
Date Received: 09/21/21 09:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:44	09/23/21 06:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:44	09/23/21 06:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:44	09/23/21 06:20	1
m-Xylene & p-Xylene	**0.00714**		0.00399		mg/Kg		09/22/21 09:44	09/23/21 06:20	1
o-Xylene	**0.00794**		0.00200		mg/Kg		09/22/21 09:44	09/23/21 06:20	1
Xylenes, Total	**0.0151**		0.00399		mg/Kg		09/22/21 09:44	09/23/21 06:20	1
Total BTEX	**0.0151**		0.00399		mg/Kg		09/22/21 09:44	09/23/21 06:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*09/22/21 09:44*	*09/23/21 06:20*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*09/22/21 09:44*	*09/23/21 06:20*	*1*

Method: 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		09/21/21 14:14	09/22/21 01:43	1
Diesel Range Organics (Over C10-C28)	**116**		49.9		mg/Kg		09/21/21 14:14	09/22/21 01:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/21 14:14	09/22/21 01:43	1
Total TPH	**116**		49.9		mg/Kg		09/21/21 14:14	09/22/21 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*09/21/21 14:14*	*09/22/21 01:43*	*1*
o-Terphenyl	*113*		*70 - 130*	*09/21/21 14:14*	*09/22/21 01:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9640**		49.9		mg/Kg			09/24/21 18:28	10

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

Client Sample ID: SW-9 (South)

Lab Sample ID: 880-6305-7
Matrix: Solid
Date Collected: 09/20/21 13:10
Date Received: 09/21/21 09:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/22/21 09:44	09/23/21 07:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/22/21 09:44	09/23/21 07:42	1
Ethylbenzene	**0.0102**		0.00201		mg/Kg		09/22/21 09:44	09/23/21 07:42	1
m-Xylene & p-Xylene	**0.0786**		0.00402		mg/Kg		09/22/21 09:44	09/23/21 07:42	1
o-Xylene	**0.0707**		0.00201		mg/Kg		09/22/21 09:44	09/23/21 07:42	1
Xylenes, Total	**0.149**		0.00402		mg/Kg		09/22/21 09:44	09/23/21 07:42	1
Total BTEX	**0.160**		0.00402		mg/Kg		09/22/21 09:44	09/23/21 07:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/22/21 09:44*	*09/23/21 07:42*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*09/22/21 09:44*	*09/23/21 07:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<249	U	249		mg/Kg		09/21/21 14:14	09/22/21 02:03	5
Diesel Range Organics (Over C10-C28)	**2700**		249		mg/Kg		09/21/21 14:14	09/22/21 02:03	5
Oil Range Organics (Over C28-C36)	**314**		249		mg/Kg		09/21/21 14:14	09/22/21 02:03	5
Total TPH	**3010**		249		mg/Kg		09/21/21 14:14	09/22/21 02:03	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*09/21/21 14:14*	*09/22/21 02:03*	*5*
o-Terphenyl	*118*		*70 - 130*	*09/21/21 14:14*	*09/22/21 02:03*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10800**		49.8		mg/Kg			09/24/21 18:33	10

Client Sample ID: SW-10 (South)

Lab Sample ID: 880-6305-8
Matrix: Solid
Date Collected: 09/20/21 13:00
Date Received: 09/21/21 09:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/22/21 09:44	09/23/21 08:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/22/21 09:44	09/23/21 08:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/22/21 09:44	09/23/21 08:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/22/21 09:44	09/23/21 08:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/22/21 09:44	09/23/21 08:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/22/21 09:44	09/23/21 08:02	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		09/22/21 09:44	09/23/21 08:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*	*09/22/21 09:44*	*09/23/21 08:02*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*09/22/21 09:44*	*09/23/21 08:02*	*1*

Method: 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		09/21/21 14:14	09/22/21 02:23	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

Client Sample ID: SW-10 (South)

Lab Sample ID: 880-6305-8
Date Collected: 09/20/21 13:00
Matrix: Solid
Date Received: 09/21/21 09:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/21 14:14	09/22/21 02:23	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/21 14:14	09/22/21 02:23	1
Total TPH	<49.9	U	49.9		mg/Kg		09/21/21 14:14	09/22/21 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*09/21/21 14:14*	*09/22/21 02:23*	*1*
o-Terphenyl	*106*		*70 - 130*	*09/21/21 14:14*	*09/22/21 02:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7560**		49.8		mg/Kg			09/24/21 18:39	10

Client Sample ID: SW-11 (South)

Lab Sample ID: 880-6305-9
Date Collected: 09/20/21 13:10
Matrix: Solid
Date Received: 09/21/21 09:58

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:44	09/23/21 08:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:44	09/23/21 08:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:44	09/23/21 08:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/22/21 09:44	09/23/21 08:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:44	09/23/21 08:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/22/21 09:44	09/23/21 08:23	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/22/21 09:44	09/23/21 08:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*09/22/21 09:44*	*09/23/21 08:23*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*09/22/21 09:44*	*09/23/21 08:23*	*1*

Method: 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		09/21/21 14:14	09/22/21 02:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/21/21 14:14	09/22/21 02:43	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/21/21 14:14	09/22/21 02:43	1
Total TPH	<49.8	U	49.8		mg/Kg		09/21/21 14:14	09/22/21 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*09/21/21 14:14*	*09/22/21 02:43*	*1*
o-Terphenyl	*104*		*70 - 130*	*09/21/21 14:14*	*09/22/21 02:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8580**		49.8		mg/Kg			09/24/21 18:45	10

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-6305-1	BH-2 (19.5')	162 S1+	77
880-6305-2	SW-4 (North)	136 S1+	76
880-6305-3	SW-5 (North)	123	78
880-6305-4	SW-6 (North)	177 S1+	76
880-6305-5	SW-7 (West)	217 S1+	83
880-6305-6	SW-8 (West)	112	83
880-6305-7	SW-9 (South)	103	78
880-6305-8	SW-10 (South)	142 S1+	73
880-6305-9	SW-11 (South)	135 S1+	72
880-6345-A-8-C MS	Matrix Spike	125	82
880-6345-A-8-D MSD	Matrix Spike Duplicate	130	83
LCS 880-8198/1-A	Lab Control Sample	114	86
LCSD 880-8198/2-A	Lab Control Sample Dup	122	72
MB 880-8142/5-A	Method Blank	107	76
MB 880-8198/5-A	Method Blank	119	82

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-6305-1	BH-2 (19.5')	105	102
880-6305-2	SW-4 (North)	104	105
880-6305-3	SW-5 (North)	105	108
880-6305-4	SW-6 (North)	100	98
880-6305-5	SW-7 (West)	111	105
880-6305-6	SW-8 (West)	111	113
880-6305-7	SW-9 (South)	116	118
880-6305-8	SW-10 (South)	104	106
880-6305-9	SW-11 (South)	104	104
890-1267-A-1-I MS	Matrix Spike	93	90
890-1267-A-1-J MSD	Matrix Spike Duplicate	96	94
LCS 880-8210/2-A	Lab Control Sample	93	86
LCSD 880-8210/3-A	Lab Control Sample Dup	95	88
MB 880-8210/1-A	Method Blank	93	92

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8142/5-A
Matrix: Solid
Analysis Batch: 8262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:45	09/22/21 16:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:45	09/22/21 16:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:45	09/22/21 16:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/22/21 09:45	09/22/21 16:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:45	09/22/21 16:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/22/21 09:45	09/22/21 16:03	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/22/21 09:45	09/22/21 16:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/22/21 09:45*	*09/22/21 16:03*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*09/22/21 09:45*	*09/22/21 16:03*	*1*

Lab Sample ID: MB 880-8198/5-A
Matrix: Solid
Analysis Batch: 8262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8198

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:44	09/23/21 02:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:44	09/23/21 02:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:44	09/23/21 02:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/22/21 09:44	09/23/21 02:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:44	09/23/21 02:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/22/21 09:44	09/23/21 02:55	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/22/21 09:44	09/23/21 02:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*09/22/21 09:44*	*09/23/21 02:55*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*09/22/21 09:44*	*09/23/21 02:55*	*1*

Lab Sample ID: LCS 880-8198/1-A
Matrix: Solid
Analysis Batch: 8262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08388		mg/Kg		84	70 - 130
Toluene	0.100	0.08505		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08810		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1844		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09718		mg/Kg		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

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

Lab Sample ID: LCSD 880-8198/2-A
Matrix: Solid
Analysis Batch: 8262

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 8198

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08359		mg/Kg		84	70 - 130	0	35
Toluene			0.100	0.08817		mg/Kg		88	70 - 130	4	35
Ethylbenzene			0.100	0.09335		mg/Kg		93	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1969		mg/Kg		98	70 - 130	7	35
o-Xylene			0.100	0.1016		mg/Kg		102	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*

Lab Sample ID: 880-6345-A-8-C MS
Matrix: Solid
Analysis Batch: 8262

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 8198

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00198	U F1	0.100	0.05090	F1	mg/Kg		51	70 - 130		
Toluene	<0.00198	U F1	0.100	0.03736	F1	mg/Kg		37	70 - 130		
Ethylbenzene	<0.00198	U F1	0.100	0.04601	F1	mg/Kg		46	70 - 130		
m-Xylene & p-Xylene	<0.00396	U F1	0.201	0.09039	F1	mg/Kg		45	70 - 130		
o-Xylene	<0.00198	U F1	0.100	0.05994	F1	mg/Kg		60	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*

Lab Sample ID: 880-6345-A-8-D MSD
Matrix: Solid
Analysis Batch: 8262

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 8198

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.100	0.05894	F1	mg/Kg		59	70 - 130	15	35
Toluene	<0.00198	U F1	0.100	0.03865	F1	mg/Kg		39	70 - 130	3	35
Ethylbenzene	<0.00198	U F1	0.100	0.05040	F1	mg/Kg		50	70 - 130	9	35
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.09513	F1	mg/Kg		48	70 - 130	5	35
o-Xylene	<0.00198	U F1	0.100	0.07027		mg/Kg		70	70 - 130	16	35

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

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

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

Lab Sample ID: MB 880-8210/1-A
Matrix: Solid
Analysis Batch: 8175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8210

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		09/21/21 14:14	09/21/21 20:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/21 14:14	09/21/21 20:21	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/21 14:14	09/21/21 20:21	1
Total TPH	<50.0	U	50.0		mg/Kg		09/21/21 14:14	09/21/21 20:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*09/21/21 14:14*	*09/21/21 20:21*	*1*
o-Terphenyl	*92*		*70 - 130*	*09/21/21 14:14*	*09/21/21 20:21*	*1*

Lab Sample ID: LCS 880-8210/2-A
Matrix: Solid
Analysis Batch: 8175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8210

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	862.4		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	855.3		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Lab Sample ID: LCSD 880-8210/3-A
Matrix: Solid
Analysis Batch: 8175

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 8210

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	816.1		mg/Kg		82	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	876.2		mg/Kg		88	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Lab Sample ID: 890-1267-A-1-I MS
Matrix: Solid
Analysis Batch: 8175

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 8210

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 F1	997	<49.9	U F1	mg/Kg		0.4	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U F1	997	<49.9	U F1	mg/Kg		0.5	70 - 130		

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 880-6305-1
Project/Site: Melson Federal #002H SDG: Eddy Co,NM

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

Lab Sample ID: 890-1267-A-1-I MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 8175 **Prep Batch: 8210**

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 890-1267-A-1-J MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 8175 **Prep Batch: 8210**

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 F1	999	<50.0	U F1	mg/Kg		0.8	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	999	<50.0	U F1	mg/Kg		0.7	70 - 130	8	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	94		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8229/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 8389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/24/21 16:02	1

Lab Sample ID: LCS 880-8229/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 8389

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	248.3		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-8229/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 8389

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	250.3		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 880-6305-1 MS **Client Sample ID: BH-2 (19.5')**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 8389

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	5850		2480	8410		mg/Kg		104	90 - 110		

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-6305-1 MSD
Matrix: Solid
Analysis Batch: 8389

Client Sample ID: BH-2 (19.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5850		2480	8424		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

GC VOA

Prep Batch: 8142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8142/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 8198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6305-1	BH-2 (19.5')	Total/NA	Solid	5035	
880-6305-2	SW-4 (North)	Total/NA	Solid	5035	
880-6305-3	SW-5 (North)	Total/NA	Solid	5035	
880-6305-4	SW-6 (North)	Total/NA	Solid	5035	
880-6305-5	SW-7 (West)	Total/NA	Solid	5035	
880-6305-6	SW-8 (West)	Total/NA	Solid	5035	
880-6305-7	SW-9 (South)	Total/NA	Solid	5035	
880-6305-8	SW-10 (South)	Total/NA	Solid	5035	
880-6305-9	SW-11 (South)	Total/NA	Solid	5035	
MB 880-8198/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8198/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8198/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6345-A-8-C MS	Matrix Spike	Total/NA	Solid	5035	
880-6345-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 8262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6305-1	BH-2 (19.5')	Total/NA	Solid	8021B	8198
880-6305-2	SW-4 (North)	Total/NA	Solid	8021B	8198
880-6305-3	SW-5 (North)	Total/NA	Solid	8021B	8198
880-6305-4	SW-6 (North)	Total/NA	Solid	8021B	8198
880-6305-5	SW-7 (West)	Total/NA	Solid	8021B	8198
880-6305-6	SW-8 (West)	Total/NA	Solid	8021B	8198
880-6305-7	SW-9 (South)	Total/NA	Solid	8021B	8198
880-6305-8	SW-10 (South)	Total/NA	Solid	8021B	8198
880-6305-9	SW-11 (South)	Total/NA	Solid	8021B	8198
MB 880-8142/5-A	Method Blank	Total/NA	Solid	8021B	8142
MB 880-8198/5-A	Method Blank	Total/NA	Solid	8021B	8198
LCS 880-8198/1-A	Lab Control Sample	Total/NA	Solid	8021B	8198
LCSD 880-8198/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8198
880-6345-A-8-C MS	Matrix Spike	Total/NA	Solid	8021B	8198
880-6345-A-8-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	8198

GC Semi VOA

Analysis Batch: 8175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6305-1	BH-2 (19.5')	Total/NA	Solid	8015B NM	8210
880-6305-2	SW-4 (North)	Total/NA	Solid	8015B NM	8210
880-6305-3	SW-5 (North)	Total/NA	Solid	8015B NM	8210
880-6305-4	SW-6 (North)	Total/NA	Solid	8015B NM	8210
880-6305-5	SW-7 (West)	Total/NA	Solid	8015B NM	8210
880-6305-6	SW-8 (West)	Total/NA	Solid	8015B NM	8210
880-6305-7	SW-9 (South)	Total/NA	Solid	8015B NM	8210
880-6305-8	SW-10 (South)	Total/NA	Solid	8015B NM	8210
880-6305-9	SW-11 (South)	Total/NA	Solid	8015B NM	8210
MB 880-8210/1-A	Method Blank	Total/NA	Solid	8015B NM	8210

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

GC Semi VOA (Continued)

Analysis Batch: 8175 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-8210/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8210
LCSD 880-8210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8210
890-1267-A-1-I MS	Matrix Spike	Total/NA	Solid	8015B NM	8210
890-1267-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8210

Prep Batch: 8210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6305-1	BH-2 (19.5')	Total/NA	Solid	8015NM Prep	
880-6305-2	SW-4 (North)	Total/NA	Solid	8015NM Prep	
880-6305-3	SW-5 (North)	Total/NA	Solid	8015NM Prep	
880-6305-4	SW-6 (North)	Total/NA	Solid	8015NM Prep	
880-6305-5	SW-7 (West)	Total/NA	Solid	8015NM Prep	
880-6305-6	SW-8 (West)	Total/NA	Solid	8015NM Prep	
880-6305-7	SW-9 (South)	Total/NA	Solid	8015NM Prep	
880-6305-8	SW-10 (South)	Total/NA	Solid	8015NM Prep	
880-6305-9	SW-11 (South)	Total/NA	Solid	8015NM Prep	
MB 880-8210/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8210/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1267-A-1-I MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1267-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 8229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6305-1	BH-2 (19.5')	Soluble	Solid	DI Leach	
880-6305-2	SW-4 (North)	Soluble	Solid	DI Leach	
880-6305-3	SW-5 (North)	Soluble	Solid	DI Leach	
880-6305-4	SW-6 (North)	Soluble	Solid	DI Leach	
880-6305-5	SW-7 (West)	Soluble	Solid	DI Leach	
880-6305-6	SW-8 (West)	Soluble	Solid	DI Leach	
880-6305-7	SW-9 (South)	Soluble	Solid	DI Leach	
880-6305-8	SW-10 (South)	Soluble	Solid	DI Leach	
880-6305-9	SW-11 (South)	Soluble	Solid	DI Leach	
MB 880-8229/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8229/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8229/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6305-1 MS	BH-2 (19.5')	Soluble	Solid	DI Leach	
880-6305-1 MSD	BH-2 (19.5')	Soluble	Solid	DI Leach	

Analysis Batch: 8389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6305-1	BH-2 (19.5')	Soluble	Solid	300.0	8229
880-6305-2	SW-4 (North)	Soluble	Solid	300.0	8229
880-6305-3	SW-5 (North)	Soluble	Solid	300.0	8229
880-6305-4	SW-6 (North)	Soluble	Solid	300.0	8229
880-6305-5	SW-7 (West)	Soluble	Solid	300.0	8229
880-6305-6	SW-8 (West)	Soluble	Solid	300.0	8229
880-6305-7	SW-9 (South)	Soluble	Solid	300.0	8229
880-6305-8	SW-10 (South)	Soluble	Solid	300.0	8229

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

HPLC/IC (Continued)

Analysis Batch: 8389 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6305-9	SW-11 (South)	Soluble	Solid	300.0	8229
MB 880-8229/1-A	Method Blank	Soluble	Solid	300.0	8229
LCS 880-8229/2-A	Lab Control Sample	Soluble	Solid	300.0	8229
LCSD 880-8229/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8229
880-6305-1 MS	BH-2 (19.5')	Soluble	Solid	300.0	8229
880-6305-1 MSD	BH-2 (19.5')	Soluble	Solid	300.0	8229

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

Client Sample ID: BH-2 (19.5')

Lab Sample ID: 880-6305-1
Matrix: Solid
Date Collected: 09/20/21 13:00
Date Received: 09/21/21 09:58

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	8198	09/22/21 09:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8262	09/23/21 04:38	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8210	09/21/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8175	09/21/21 23:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8229	09/21/21 18:49	SC	XEN MID
Soluble	Analysis	300.0		10			8389	09/24/21 17:37	CH	XEN MID

Client Sample ID: SW-4 (North)

Lab Sample ID: 880-6305-2
Matrix: Solid
Date Collected: 09/20/21 13:10
Date Received: 09/21/21 09:58

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	8198	09/22/21 09:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8262	09/23/21 04:59	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8210	09/21/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8175	09/22/21 00:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8229	09/21/21 18:49	SC	XEN MID
Soluble	Analysis	300.0		10			8389	09/24/21 17:54	CH	XEN MID

Client Sample ID: SW-5 (North)

Lab Sample ID: 880-6305-3
Matrix: Solid
Date Collected: 09/20/21 13:20
Date Received: 09/21/21 09:58

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	8198	09/22/21 09:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8262	09/23/21 05:19	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	8210	09/21/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8175	09/22/21 00:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8229	09/21/21 18:49	SC	XEN MID
Soluble	Analysis	300.0		10			8389	09/24/21 18:00	CH	XEN MID

Client Sample ID: SW-6 (North)

Lab Sample ID: 880-6305-4
Matrix: Solid
Date Collected: 09/20/21 13:00
Date Received: 09/21/21 09:58

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	8198	09/22/21 09:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8262	09/23/21 05:39	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8210	09/21/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		5			8175	09/22/21 00:43	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	8229	09/21/21 18:49	SC	XEN MID
Soluble	Analysis	300.0		10			8389	09/24/21 18:17	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

Client Sample ID: SW-7 (West)

Lab Sample ID: 880-6305-5
Matrix: Solid
Date Collected: 09/20/21 13:10
Date Received: 09/21/21 09:58

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	8198	09/22/21 09:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8262	09/23/21 06:00	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8210	09/21/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		5			8175	09/22/21 01:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	8229	09/21/21 18:49	SC	XEN MID
Soluble	Analysis	300.0		10			8389	09/24/21 18:22	CH	XEN MID

Client Sample ID: SW-8 (West)

Lab Sample ID: 880-6305-6
Matrix: Solid
Date Collected: 09/20/21 13:00
Date Received: 09/21/21 09:58

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	8198	09/22/21 09:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8262	09/23/21 06:20	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8210	09/21/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8175	09/22/21 01:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8229	09/21/21 18:49	SC	XEN MID
Soluble	Analysis	300.0		10			8389	09/24/21 18:28	CH	XEN MID

Client Sample ID: SW-9 (South)

Lab Sample ID: 880-6305-7
Matrix: Solid
Date Collected: 09/20/21 13:10
Date Received: 09/21/21 09:58

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	8198	09/22/21 09:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8262	09/23/21 07:42	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8210	09/21/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		5			8175	09/22/21 02:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8229	09/21/21 18:49	SC	XEN MID
Soluble	Analysis	300.0		10			8389	09/24/21 18:33	CH	XEN MID

Client Sample ID: SW-10 (South)

Lab Sample ID: 880-6305-8
Matrix: Solid
Date Collected: 09/20/21 13:00
Date Received: 09/21/21 09:58

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	8198	09/22/21 09:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8262	09/23/21 08:02	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8210	09/21/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8175	09/22/21 02:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8229	09/21/21 19:17	SC	XEN MID
Soluble	Analysis	300.0		10			8389	09/24/21 18:39	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

Client Sample ID: SW-11 (South)

Date Collected: 09/20/21 13:10
Date Received: 09/21/21 09:58

Lab Sample ID: 880-6305-9

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			5.00 g	5 mL	8198	09/22/21 09:44	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8262	09/23/21 08:23	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8210	09/21/21 14:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8175	09/22/21 02:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8229	09/21/21 19:17	SC	XEN MID
Soluble	Analysis	300.0		10			8389	09/24/21 18:45	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6305-1
SDG: Eddy Co,NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-6305-1	BH-2 (19.5')	Solid	09/20/21 13:00	09/21/21 09:58
880-6305-2	SW-4 (North)	Solid	09/20/21 13:10	09/21/21 09:58
880-6305-3	SW-5 (North)	Solid	09/20/21 13:20	09/21/21 09:58
880-6305-4	SW-6 (North)	Solid	09/20/21 13:00	09/21/21 09:58
880-6305-5	SW-7 (West)	Solid	09/20/21 13:10	09/21/21 09:58
880-6305-6	SW-8 (West)	Solid	09/20/21 13:00	09/21/21 09:58
880-6305-7	SW-9 (South)	Solid	09/20/21 13:10	09/21/21 09:58
880-6305-8	SW-10 (South)	Solid	09/20/21 13:00	09/21/21 09:58
880-6305-9	SW-11 (South)	Solid	09/20/21 13:10	09/21/21 09:58

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 West I
Midland,
Tel (432) 682-4559
Fax (432) 682-3946

880-6305 Chain of Custody

Page 1 of 1

880-6305

9/27/2021

Client Name	EOG Resources
Site Manager	Paula Tocora
Project Name	Melson Federal #002H
Project Location (county, state)	Eddy Co, NM
Project #	212C-MD-02547
Invoice to	James Kennedy - EOG
Receiving Laboratory	Xenco Eurofines
Sampler Signature	Ashton Thielke
Comments	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)	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	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos	Hold
	BH-2 (19 5')	9/20/2021	13:00		X			X	1		X		X													X					
	SW-4 (North)	9/20/2021	13:10		X			X	1		X		X													X					
	SW-5 (North)	9/20/2021	13:20		X			X	1		X		X													X					
	SW-6 (North)	9/20/2021	13:00		X			X	1		X		X													X					
	SW-7 (West)	9/20/2021	13:10		X			X	1		X		X													X					
	SW-8 (West)	9/20/2021	13:00		X			X	1		X		X													X					
	SW-9 (South)	9/20/2021	13 10		X			X	1		X		X													X					
	SW-10 (South)	9/20/2021	13 00		X			X	1		X		X													X					
	SW-11 (South)	9/20/2021	13:10		X			X	1		X		X													X					

Relinquished by	Date	Time	Received by	Date	Time
Ashton Thielke			Paula Tocora Alonso		
Relinquished by	9/21/21	9:50	Received by	9/21/21	0958
Relinquished by			Received by		

LAB USE ONLY

Sample Temperature 0/0.5

REMARKS:

- ☐ RUSH Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-6305-1
SDG Number: Eddy Co,NM

Login Number: 6305
List Number: 1
Creator: Phillips, Kerianna

List Source: Eurofins Xenco, 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	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-6370-1
Laboratory Sample Delivery Group: Eddy Co, NM
Client Project/Site: Melson Federal #002H

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

Attn: Clair Gonzales

JKramer

Authorized for release by:
9/27/2021 4:08:58 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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

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

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Laboratory Job ID: 880-6370-1
SDG: Eddy Co, NM

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-6370-1
Project/Site: Melson Federal #002H SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*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
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6370-1
SDG: Eddy Co, NM

Job ID: 880-6370-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-6370-1

Receipt
The samples were received on 9/22/2021 1:00 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 6.0°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8263 and analytical batch 880-8262 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-12 (East) (880-6370-1), SW-3 (North) (880-6370-2), BTM-3 (19.5) (880-6370-3), BTM-4 (19.5) (880-6370-4) and (890-1285-A-2-E). 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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-8284 and analytical batch 880-8340 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10

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 880-8312 and 880-8312 and analytical batch 880-8401 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.

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-6370-1
Project/Site: Melson Federal #002H SDG: Eddy Co, NM

Client Sample ID: SW-12 (East) Lab Sample ID: 880-6370-1

Date Collected: 09/21/21 13:00 **Matrix: Solid**
Date Received: 09/22/21 13:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/21 13:16	09/24/21 04:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/21 13:16	09/24/21 04:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/21 13:16	09/24/21 04:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/22/21 13:16	09/24/21 04:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/21 13:16	09/24/21 04:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/22/21 13:16	09/24/21 04:05	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		09/22/21 13:16	09/24/21 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*09/22/21 13:16*	*09/24/21 04:05*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*09/22/21 13:16*	*09/24/21 04:05*	*1*

Method: 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 *1	49.8		mg/Kg		09/22/21 16:43	09/24/21 16:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/22/21 16:43	09/24/21 16:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/22/21 16:43	09/24/21 16:25	1
Total TPH	<49.8	U	49.8		mg/Kg		09/22/21 16:43	09/24/21 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*09/22/21 16:43*	*09/24/21 16:25*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*09/22/21 16:43*	*09/24/21 16:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5550**	**F1**	99.8		mg/Kg			09/26/21 02:08	20

Client Sample ID: SW-3 (North) Lab Sample ID: 880-6370-2

Date Collected: 09/21/21 13:10 **Matrix: Solid**
Date Received: 09/22/21 13:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/22/21 13:16	09/24/21 04:26	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/22/21 13:16	09/24/21 04:26	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/22/21 13:16	09/24/21 04:26	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/22/21 13:16	09/24/21 04:26	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/22/21 13:16	09/24/21 04:26	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/22/21 13:16	09/24/21 04:26	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		09/22/21 13:16	09/24/21 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*09/22/21 13:16*	*09/24/21 04:26*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*09/22/21 13:16*	*09/24/21 04:26*	*1*

Method: 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		09/22/21 16:43	09/24/21 16:46	1

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6370-1
SDG: Eddy Co, NM

Client Sample ID: SW-3 (North)

Lab Sample ID: 880-6370-2
Date Collected: 09/21/21 13:10
Matrix: Solid
Date Received: 09/22/21 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/21 16:43	09/24/21 16:46	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/21 16:43	09/24/21 16:46	1
Total TPH	<50.0	U	50.0		mg/Kg		09/22/21 16:43	09/24/21 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*09/22/21 16:43*	*09/24/21 16:46*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*09/22/21 16:43*	*09/24/21 16:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8800**		50.4		mg/Kg			09/26/21 02:27	10

Client Sample ID: BTM-3 (19.5)

Lab Sample ID: 880-6370-3
Date Collected: 09/22/21 08:30
Matrix: Solid
Date Received: 09/22/21 13:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/22/21 13:16	09/24/21 04:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/22/21 13:16	09/24/21 04:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/22/21 13:16	09/24/21 04:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/22/21 13:16	09/24/21 04:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/22/21 13:16	09/24/21 04:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/22/21 13:16	09/24/21 04:46	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		09/22/21 13:16	09/24/21 04:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*	*09/22/21 13:16*	*09/24/21 04:46*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*09/22/21 13:16*	*09/24/21 04:46*	*1*

Method: 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		09/22/21 16:43	09/24/21 17:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/21 16:43	09/24/21 17:08	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/21 16:43	09/24/21 17:08	1
Total TPH	<50.0	U	50.0		mg/Kg		09/22/21 16:43	09/24/21 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*09/22/21 16:43*	*09/24/21 17:08*	*1*
o-Terphenyl	*113*		*70 - 130*	*09/22/21 16:43*	*09/24/21 17:08*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6560**		49.7		mg/Kg			09/26/21 02:33	10

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6370-1
SDG: Eddy Co, NM

Client Sample ID: BTM-4 (19.5)

Lab Sample ID: 880-6370-4
Matrix: Solid
Date Collected: 09/22/21 08:30
Date Received: 09/22/21 13:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/22/21 13:16	09/24/21 05:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/22/21 13:16	09/24/21 05:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/22/21 13:16	09/24/21 05:07	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/22/21 13:16	09/24/21 05:07	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/22/21 13:16	09/24/21 05:07	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/22/21 13:16	09/24/21 05:07	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		09/22/21 13:16	09/24/21 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*09/22/21 13:16*	*09/24/21 05:07*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*09/22/21 13:16*	*09/24/21 05:07*	*1*

Method: 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		09/22/21 15:50	09/24/21 18:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/22/21 15:50	09/24/21 18:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/22/21 15:50	09/24/21 18:13	1
Total TPH	<49.8	U	49.8		mg/Kg		09/22/21 15:50	09/24/21 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*09/22/21 15:50*	*09/24/21 18:13*	*1*
o-Terphenyl	*124*		*70 - 130*	*09/22/21 15:50*	*09/24/21 18:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5730**		49.5		mg/Kg			09/26/21 02:39	10

Client Sample ID: BTM-5 (19.5)

Lab Sample ID: 880-6370-5
Matrix: Solid
Date Collected: 09/22/21 08:30
Date Received: 09/22/21 13:00

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/21 13:16	09/24/21 05:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/21 13:16	09/24/21 05:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/21 13:16	09/24/21 05:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/22/21 13:16	09/24/21 05:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/21 13:16	09/24/21 05:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/22/21 13:16	09/24/21 05:27	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		09/22/21 13:16	09/24/21 05:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*09/22/21 13:16*	*09/24/21 05:27*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*09/22/21 13:16*	*09/24/21 05:27*	*1*

Method: 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		09/22/21 15:50	09/24/21 18:35	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6370-1
SDG: Eddy Co, NM

Client Sample ID: BTM-5 (19.5)

Date Collected: 09/22/21 08:30
Date Received: 09/22/21 13:00

Lab Sample ID: 880-6370-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/21 15:50	09/24/21 18:35	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/21 15:50	09/24/21 18:35	1
Total TPH	<50.0	U	50.0		mg/Kg		09/22/21 15:50	09/24/21 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*09/22/21 15:50*	*09/24/21 18:35*	*1*
o-Terphenyl	*109*		*70 - 130*	*09/22/21 15:50*	*09/24/21 18:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2480**		25.1		mg/Kg			09/26/21 02:45	5

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6370-1
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 (70-130)	DFBZ1 (70-130)
880-6370-1	SW-12 (East)	141 S1+	76
880-6370-2	SW-3 (North)	137 S1+	77
880-6370-3	BTM-3 (19.5)	151 S1+	89
880-6370-4	BTM-4 (19.5)	145 S1+	78
880-6370-5	BTM-5 (19.5)	128	75
890-1285-A-2-C MS	Matrix Spike	123	64 S1-
890-1285-A-2-D MSD	Matrix Spike Duplicate	123	81
LCS 880-8263/1-A	Lab Control Sample	128	71
LCSD 880-8263/2-A	Lab Control Sample Dup	129	79
MB 880-8209/5-A	Method Blank	109	79
MB 880-8263/5-A	Method Blank	101	78

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)
880-6370-1	SW-12 (East)	116	136 S1+
880-6370-2	SW-3 (North)	121	138 S1+
880-6370-3	BTM-3 (19.5)	101	113
880-6370-4	BTM-4 (19.5)	119	124
880-6370-5	BTM-5 (19.5)	106	109
880-6375-A-3-C MS	Matrix Spike	108	102
880-6375-A-3-D MSD	Matrix Spike Duplicate	117	112
880-6376-A-1-B MS	Matrix Spike	86	80
880-6376-A-1-C MSD	Matrix Spike Duplicate	74	71
LCS 880-8276/2-A	Lab Control Sample	96	88
LCS 880-8284/2-A	Lab Control Sample	112	109
LCSD 880-8276/3-A	Lab Control Sample Dup	90	82
LCSD 880-8284/3-A	Lab Control Sample Dup	96	97
MB 880-8276/1-A	Method Blank	112	122
MB 880-8284/1-A	Method Blank	97	111

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6370-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8209/5-A
Matrix: Solid
Analysis Batch: 8262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8209

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:00	09/23/21 16:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:00	09/23/21 16:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:00	09/23/21 16:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/22/21 09:00	09/23/21 16:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/21 09:00	09/23/21 16:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/22/21 09:00	09/23/21 16:32	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/22/21 09:00	09/23/21 16:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*09/22/21 09:00*	*09/23/21 16:32*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*09/22/21 09:00*	*09/23/21 16:32*	*1*

Lab Sample ID: MB 880-8263/5-A
Matrix: Solid
Analysis Batch: 8262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8263

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/22/21 13:16	09/24/21 03:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/22/21 13:16	09/24/21 03:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/22/21 13:16	09/24/21 03:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/22/21 13:16	09/24/21 03:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/22/21 13:16	09/24/21 03:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/22/21 13:16	09/24/21 03:24	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		09/22/21 13:16	09/24/21 03:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/22/21 13:16*	*09/24/21 03:24*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*09/22/21 13:16*	*09/24/21 03:24*	*1*

Lab Sample ID: LCS 880-8263/1-A
Matrix: Solid
Analysis Batch: 8262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8263

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09072		mg/Kg		91	70 - 130
Toluene	0.100	0.09667		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1013		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2132		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1075		mg/Kg		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6370-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-8263/2-A
Matrix: Solid
Analysis Batch: 8262

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 8263

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08034		mg/Kg		80	70 - 130	12	35
Toluene			0.100	0.08706		mg/Kg		87	70 - 130	10	35
Ethylbenzene			0.100	0.09732		mg/Kg		97	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2042		mg/Kg		102	70 - 130	4	35
o-Xylene			0.100	0.1036		mg/Kg		104	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*

Lab Sample ID: 890-1285-A-2-C MS
Matrix: Solid
Analysis Batch: 8262

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 8263

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00199	U F2 F1	0.100	0.03895	F1	mg/Kg		39	70 - 130		
Toluene	<0.00199	U F2 F1	0.100	0.04917	F1	mg/Kg		49	70 - 130		
Ethylbenzene	<0.00199	U F1	0.100	0.05776	F1	mg/Kg		58	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.1141	F1	mg/Kg		57	70 - 130		
o-Xylene	<0.00199	U F1	0.100	0.05958	F1	mg/Kg		60	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*64*	*S1-*	*70 - 130*

Lab Sample ID: 890-1285-A-2-D MSD
Matrix: Solid
Analysis Batch: 8262

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 8263

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.0998	0.07229	F2	mg/Kg		72	70 - 130	60	35
Toluene	<0.00199	U F2 F1	0.0998	0.07795	F2	mg/Kg		78	70 - 130	45	35
Ethylbenzene	<0.00199	U F1	0.0998	0.08024		mg/Kg		80	70 - 130	33	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.1664	F2	mg/Kg		83	70 - 130	37	35
o-Xylene	<0.00199	U F1	0.0998	0.08481		mg/Kg		85	70 - 130	35	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6370-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-8276/1-A
Matrix: Solid
Analysis Batch: 8338

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8276

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		09/22/21 15:50	09/24/21 09:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/21 15:50	09/24/21 09:37	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/21 15:50	09/24/21 09:37	1
Total TPH	<50.0	U	50.0		mg/Kg		09/22/21 15:50	09/24/21 09:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*09/22/21 15:50*	*09/24/21 09:37*	*1*
o-Terphenyl	*122*		*70 - 130*	*09/22/21 15:50*	*09/24/21 09:37*	*1*

Lab Sample ID: LCS 880-8276/2-A
Matrix: Solid
Analysis Batch: 8338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8276

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	871.1		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	880.4		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Lab Sample ID: LCSD 880-8276/3-A
Matrix: Solid
Analysis Batch: 8338

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 8276

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	713.0		mg/Kg		71	70 - 130	20	20
Diesel Range Organics (Over C10-C28)			1000	824.4		mg/Kg		82	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: 880-6375-A-3-C MS
Matrix: Solid
Analysis Batch: 8338

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 8276

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	997	994.6		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	939.7		mg/Kg		93	70 - 130		

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6370-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-6375-A-3-C MS
Matrix: Solid
Analysis Batch: 8338

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 8276

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 880-6375-A-3-D MSD
Matrix: Solid
Analysis Batch: 8338

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 8276

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	999	1158		mg/Kg		113	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1024		mg/Kg		101	70 - 130	9	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: MB 880-8284/1-A
Matrix: Solid
Analysis Batch: 8340

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8284

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		09/22/21 16:43	09/24/21 09:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/21 16:43	09/24/21 09:37	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/21 16:43	09/24/21 09:37	1
Total TPH	<50.0	U	50.0		mg/Kg		09/22/21 16:43	09/24/21 09:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	09/22/21 16:43	09/24/21 09:37	1
o-Terphenyl	111		70 - 130	09/22/21 16:43	09/24/21 09:37	1

Lab Sample ID: LCS 880-8284/2-A
Matrix: Solid
Analysis Batch: 8340

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1077		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1053		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	109		70 - 130

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6370-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCSD 880-8284/3-A
Matrix: Solid
Analysis Batch: 8340

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 8284

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	843.4	*1	mg/Kg		84	70 - 130	24	20
Diesel Range Organics (Over C10-C28)			1000	926.8		mg/Kg		93	70 - 130	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: 880-6376-A-1-B MS
Matrix: Solid
Analysis Batch: 8340

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 8284

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 *1	997	1038		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	997	876.3		mg/Kg		86	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Lab Sample ID: 880-6376-A-1-C MSD
Matrix: Solid
Analysis Batch: 8340

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 8284

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 *1	999	897.6		mg/Kg		90	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	779.7		mg/Kg		76	70 - 130	12	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*74*		*70 - 130*
o-Terphenyl	*71*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8312/1-A
Matrix: Solid
Analysis Batch: 8401

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			09/26/21 01:50	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6370-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-8312/2-A
Matrix: Solid
Analysis Batch: 8401

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	261.3		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-8312/3-A
Matrix: Solid
Analysis Batch: 8401

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	261.3		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-6370-1 MS
Matrix: Solid
Analysis Batch: 8401

Client Sample ID: SW-12 (East)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	5550	F1	4990	11310	F1	mg/Kg		115	90 - 110		

Lab Sample ID: 880-6370-1 MSD
Matrix: Solid
Analysis Batch: 8401

Client Sample ID: SW-12 (East)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5550	F1	4990	11440	F1	mg/Kg		118	90 - 110	1	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6370-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 8209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8209/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 8262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6370-1	SW-12 (East)	Total/NA	Solid	8021B	8263
880-6370-2	SW-3 (North)	Total/NA	Solid	8021B	8263
880-6370-3	BTM-3 (19.5)	Total/NA	Solid	8021B	8263
880-6370-4	BTM-4 (19.5)	Total/NA	Solid	8021B	8263
880-6370-5	BTM-5 (19.5)	Total/NA	Solid	8021B	8263
MB 880-8209/5-A	Method Blank	Total/NA	Solid	8021B	8209
MB 880-8263/5-A	Method Blank	Total/NA	Solid	8021B	8263
LCS 880-8263/1-A	Lab Control Sample	Total/NA	Solid	8021B	8263
LCSD 880-8263/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8263
890-1285-A-2-C MS	Matrix Spike	Total/NA	Solid	8021B	8263
890-1285-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	8263

Prep Batch: 8263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6370-1	SW-12 (East)	Total/NA	Solid	5035	
880-6370-2	SW-3 (North)	Total/NA	Solid	5035	
880-6370-3	BTM-3 (19.5)	Total/NA	Solid	5035	
880-6370-4	BTM-4 (19.5)	Total/NA	Solid	5035	
880-6370-5	BTM-5 (19.5)	Total/NA	Solid	5035	
MB 880-8263/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8263/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8263/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1285-A-2-C MS	Matrix Spike	Total/NA	Solid	5035	
890-1285-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 8276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6370-4	BTM-4 (19.5)	Total/NA	Solid	8015NM Prep	
880-6370-5	BTM-5 (19.5)	Total/NA	Solid	8015NM Prep	
MB 880-8276/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8276/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8276/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6375-A-3-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6375-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 8284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6370-1	SW-12 (East)	Total/NA	Solid	8015NM Prep	
880-6370-2	SW-3 (North)	Total/NA	Solid	8015NM Prep	
880-6370-3	BTM-3 (19.5)	Total/NA	Solid	8015NM Prep	
MB 880-8284/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8284/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8284/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6376-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6376-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6370-1
SDG: Eddy Co, NM

GC Semi VOA

Analysis Batch: 8338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6370-4	BTM-4 (19.5)	Total/NA	Solid	8015B NM	8276
880-6370-5	BTM-5 (19.5)	Total/NA	Solid	8015B NM	8276
MB 880-8276/1-A	Method Blank	Total/NA	Solid	8015B NM	8276
LCS 880-8276/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8276
LCSD 880-8276/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8276
880-6375-A-3-C MS	Matrix Spike	Total/NA	Solid	8015B NM	8276
880-6375-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8276

Analysis Batch: 8340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6370-1	SW-12 (East)	Total/NA	Solid	8015B NM	8284
880-6370-2	SW-3 (North)	Total/NA	Solid	8015B NM	8284
880-6370-3	BTM-3 (19.5)	Total/NA	Solid	8015B NM	8284
MB 880-8284/1-A	Method Blank	Total/NA	Solid	8015B NM	8284
LCS 880-8284/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8284
LCSD 880-8284/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8284
880-6376-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	8284
880-6376-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8284

HPLC/IC

Leach Batch: 8312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6370-1	SW-12 (East)	Soluble	Solid	DI Leach	
880-6370-2	SW-3 (North)	Soluble	Solid	DI Leach	
880-6370-3	BTM-3 (19.5)	Soluble	Solid	DI Leach	
880-6370-4	BTM-4 (19.5)	Soluble	Solid	DI Leach	
880-6370-5	BTM-5 (19.5)	Soluble	Solid	DI Leach	
MB 880-8312/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8312/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8312/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6370-1 MS	SW-12 (East)	Soluble	Solid	DI Leach	
880-6370-1 MSD	SW-12 (East)	Soluble	Solid	DI Leach	

Analysis Batch: 8401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6370-1	SW-12 (East)	Soluble	Solid	300.0	8312
880-6370-2	SW-3 (North)	Soluble	Solid	300.0	8312
880-6370-3	BTM-3 (19.5)	Soluble	Solid	300.0	8312
880-6370-4	BTM-4 (19.5)	Soluble	Solid	300.0	8312
880-6370-5	BTM-5 (19.5)	Soluble	Solid	300.0	8312
MB 880-8312/1-A	Method Blank	Soluble	Solid	300.0	8312
LCS 880-8312/2-A	Lab Control Sample	Soluble	Solid	300.0	8312
LCSD 880-8312/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8312
880-6370-1 MS	SW-12 (East)	Soluble	Solid	300.0	8312
880-6370-1 MSD	SW-12 (East)	Soluble	Solid	300.0	8312

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6370-1
SDG: Eddy Co, NM

Client Sample ID: SW-12 (East)

Lab Sample ID: 880-6370-1
Matrix: Solid
Date Collected: 09/21/21 13:00
Date Received: 09/22/21 13:00

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	8263	09/22/21 13:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8262	09/24/21 04:05	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8284	09/22/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8340	09/24/21 16:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8312	09/23/21 12:08	SC	XEN MID
Soluble	Analysis	300.0		20			8401	09/26/21 02:08	CH	XEN MID

Client Sample ID: SW-3 (North)

Lab Sample ID: 880-6370-2
Matrix: Solid
Date Collected: 09/21/21 13:10
Date Received: 09/22/21 13:00

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	8263	09/22/21 13:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8262	09/24/21 04:26	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8284	09/22/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8340	09/24/21 16:46	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8312	09/23/21 12:08	SC	XEN MID
Soluble	Analysis	300.0		10			8401	09/26/21 02:27	CH	XEN MID

Client Sample ID: BTM-3 (19.5)

Lab Sample ID: 880-6370-3
Matrix: Solid
Date Collected: 09/22/21 08:30
Date Received: 09/22/21 13:00

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	8263	09/22/21 13:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8262	09/24/21 04:46	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8284	09/22/21 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8340	09/24/21 17:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8312	09/23/21 12:08	SC	XEN MID
Soluble	Analysis	300.0		10			8401	09/26/21 02:33	CH	XEN MID

Client Sample ID: BTM-4 (19.5)

Lab Sample ID: 880-6370-4
Matrix: Solid
Date Collected: 09/22/21 08:30
Date Received: 09/22/21 13:00

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	8263	09/22/21 13:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8262	09/24/21 05:07	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8276	09/22/21 15:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8338	09/24/21 18:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8312	09/23/21 12:08	SC	XEN MID
Soluble	Analysis	300.0		10			8401	09/26/21 02:39	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6370-1
SDG: Eddy Co, NM

Client Sample ID: BTM-5 (19.5)

Date Collected: 09/22/21 08:30
Date Received: 09/22/21 13:00

Lab Sample ID: 880-6370-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	8263	09/22/21 13:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8262	09/24/21 05:27	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8276	09/22/21 15:50	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8338	09/24/21 18:35	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8312	09/23/21 12:08	SC	XEN MID
Soluble	Analysis	300.0		5			8401	09/26/21 02:45	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6370-1
SDG: Eddy Co, NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6370-1
SDG: Eddy Co, NM

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6370-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-6370-1	SW-12 (East)	Solid	09/21/21 13:00	09/22/21 13:00
880-6370-2	SW-3 (North)	Solid	09/21/21 13:10	09/22/21 13:00
880-6370-3	BTM-3 (19.5)	Solid	09/22/21 08:30	09/22/21 13:00
880-6370-4	BTM-4 (19.5)	Solid	09/22/21 08:30	09/22/21 13:00
880-6370-5	BTM-5 (19.5)	Solid	09/22/21 08:30	09/22/21 13:00

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 West Wall St, Suite 1(
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

880-6370 Chain of Custody

880- 6370

9/27/2021

Client Name	EOG Resources
Site Manager	Paula Tocora
Project Name	Melson Federal #002H
Project Location (county, state)	Eddy Co, NM
Project #:	212C-MD-02547
Invoice to	James Kennedy - EOG
Receiving Laboratory	Xenco Eurofines
Sampler Signature	Ashton Thielke
Comments	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
	SW-12 (East)	9/21/2021	13 00		X				X			1	
	SW-3 (North)	9/21/2021	13 10		X				X			1	
	BTM-3 (19 5)	9/22/2021	8 30		X				X			1	
	BTM-4 (19 5)	9/22/2021	8 30		X				X			1	
	BTM-5 (19 5)	9/22/2021	8 30		X				X			1	

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	Asbestos			Hold
X		X												X							
X		X												X							
X		X												X							
X		X												X							
X		X												X							

Relinquished by: Ashton Thielke — Date — Time

Received by: Paula Tocora Alonso — Date — Time

Relinquished by: Gabriel Huerta — Date: 9-22-21 — Time: 13:00

Received by: [signature] — Date: 9/22/21 — Time: 1300

Relinquished by — Date — Time

Received by — Date — Time

LAB USE ONLY

Sample Temperature: 5.5/6.0

REMARKS:

- [x] 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: 880-6370-1
SDG Number: Eddy Co, NM

Login Number: 6370
List Number: 1
Creator: Phillips, Kerianna

List Source: Eurofins Xenco, 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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-6800-1
Laboratory Sample Delivery Group: 212C-MD-02547
Client Project/Site: Melson Federal #002H

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

Attn: Clair Gonzales

JKramer

Authorized for release by:
10/8/2021 5:13:24 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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

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

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Laboratory Job ID: 880-6800-1
SDG: 212C-MD-02547

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-6800-1
Project/Site: Melson Federal #002H SDG: 212C-MD-02547

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD 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.
¤	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: Melson Federal #002H

Job ID: 880-6800-1
SDG: 212C-MD-02547

Job ID: 880-6800-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-6800-1

Receipt
The samples were received on 10/5/2021 10:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8912 and analytical batch 880-8885 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-6 (880-6800-1), SW-7 (880-6800-2) and SW-8 (880-6800-3). 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
Method 8015MOD_NM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 880-8894 and analytical batch 880-8951.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-8 (880-6800-3). 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.

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

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6800-1
SDG: 212C-MD-02547

Client Sample ID: SW-6

Lab Sample ID: 880-6800-1
Matrix: Solid
Date Collected: 10/04/21 13:30
Date Received: 10/05/21 10:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/05/21 17:00	10/06/21 04:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/05/21 17:00	10/06/21 04:46	1
Ethylbenzene	**0.0295**		0.00199		mg/Kg		10/05/21 17:00	10/06/21 04:46	1
m-Xylene & p-Xylene	**0.123**		0.00398		mg/Kg		10/05/21 17:00	10/06/21 04:46	1
o-Xylene	**0.108**		0.00199		mg/Kg		10/05/21 17:00	10/06/21 04:46	1
Xylenes, Total	**0.231**		0.00398		mg/Kg		10/05/21 17:00	10/06/21 04:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*10/05/21 17:00*	*10/06/21 04:46*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*10/05/21 17:00*	*10/06/21 04:46*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.261**		0.00200		mg/Kg			10/05/21 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3200**		249		mg/Kg			10/07/21 09:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<249	U	249		mg/Kg		10/05/21 10:43	10/06/21 18:14	5
Diesel Range Organics (Over C10-C28)	**3200**		249		mg/Kg		10/05/21 10:43	10/06/21 18:14	5
Oil Range Organics (Over C28-C36)	<249	U	249		mg/Kg		10/05/21 10:43	10/06/21 18:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*10/05/21 10:43*	*10/06/21 18:14*	*5*
o-Terphenyl	*105*		*70 - 130*	*10/05/21 10:43*	*10/06/21 18:14*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5640**		49.6		mg/Kg			10/05/21 22:57	10

Client Sample ID: SW-7

Lab Sample ID: 880-6800-2
Matrix: Solid
Date Collected: 10/04/21 11:30
Date Received: 10/05/21 10:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/05/21 17:00	10/06/21 05:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/05/21 17:00	10/06/21 05:06	1
Ethylbenzene	**0.0176**		0.00200		mg/Kg		10/05/21 17:00	10/06/21 05:06	1
m-Xylene & p-Xylene	**0.0646**		0.00400		mg/Kg		10/05/21 17:00	10/06/21 05:06	1
o-Xylene	**0.0398**		0.00200		mg/Kg		10/05/21 17:00	10/06/21 05:06	1
Xylenes, Total	**0.104**		0.00400		mg/Kg		10/05/21 17:00	10/06/21 05:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*173*	*S1+*	*70 - 130*	*10/05/21 17:00*	*10/06/21 05:06*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*10/05/21 17:00*	*10/06/21 05:06*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6800-1
SDG: 212C-MD-02547

Client Sample ID: SW-7

Lab Sample ID: 880-6800-2
Date Collected: 10/04/21 11:30
Matrix: Solid
Date Received: 10/05/21 10:20

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.122**		0.00200		mg/Kg			10/05/21 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2280**		249		mg/Kg			10/07/21 09:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<249	U	249		mg/Kg		10/05/21 10:43	10/06/21 18:35	5
Diesel Range Organics (Over C10-C28)	**2280**		249		mg/Kg		10/05/21 10:43	10/06/21 18:35	5
OII Range Organics (Over C28-C36)	<249	U	249		mg/Kg		10/05/21 10:43	10/06/21 18:35	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*10/05/21 10:43*	*10/06/21 18:35*	*5*
o-Terphenyl	*113*		*70 - 130*	*10/05/21 10:43*	*10/06/21 18:35*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3660**		25.2		mg/Kg			10/05/21 23:13	5

Client Sample ID: SW-8

Lab Sample ID: 880-6800-3
Date Collected: 10/04/21 14:45
Matrix: Solid
Date Received: 10/05/21 10:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/05/21 17:00	10/06/21 05:27	1
Toluene	**0.00365**		0.00200		mg/Kg		10/05/21 17:00	10/06/21 05:27	1
Ethylbenzene	**0.0286**		0.00200		mg/Kg		10/05/21 17:00	10/06/21 05:27	1
m-Xylene & p-Xylene	**0.101**		0.00399		mg/Kg		10/05/21 17:00	10/06/21 05:27	1
o-Xylene	**0.0754**		0.00200		mg/Kg		10/05/21 17:00	10/06/21 05:27	1
Xylenes, Total	**0.176**		0.00399		mg/Kg		10/05/21 17:00	10/06/21 05:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*166*	*S1+*	*70 - 130*	*10/05/21 17:00*	*10/06/21 05:27*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*10/05/21 17:00*	*10/06/21 05:27*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.209**		0.00200		mg/Kg			10/05/21 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**4120**		249		mg/Kg			10/07/21 09:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<249	U	249		mg/Kg		10/05/21 10:43	10/06/21 18:57	5
Diesel Range Organics (Over C10-C28)	**4120**		249		mg/Kg		10/05/21 10:43	10/06/21 18:57	5

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6800-1
SDG: 212C-MD-02547

Client Sample ID: SW-8

Lab Sample ID: 880-6800-3
Date Collected: 10/04/21 14:45
Matrix: Solid
Date Received: 10/05/21 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<249	U	249		mg/Kg		10/05/21 10:43	10/06/21 18:57	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*10/05/21 10:43*	*10/06/21 18:57*	*5*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*10/05/21 10:43*	*10/06/21 18:57*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5540**		49.9		mg/Kg			10/05/21 23:19	10

Client Sample ID: SW-9

Lab Sample ID: 880-6800-4
Date Collected: 10/04/21 13:15
Matrix: Solid
Date Received: 10/05/21 10:20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/05/21 17:00	10/06/21 05:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/05/21 17:00	10/06/21 05:47	1
Ethylbenzene	**0.00879**		0.00199		mg/Kg		10/05/21 17:00	10/06/21 05:47	1
m-Xylene & p-Xylene	**0.0577**		0.00398		mg/Kg		10/05/21 17:00	10/06/21 05:47	1
o-Xylene	**0.0512**		0.00199		mg/Kg		10/05/21 17:00	10/06/21 05:47	1
Xylenes, Total	**0.109**		0.00398		mg/Kg		10/05/21 17:00	10/06/21 05:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*10/05/21 17:00*	*10/06/21 05:47*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*10/05/21 17:00*	*10/06/21 05:47*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.118**		0.00200		mg/Kg			10/05/21 10:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2100**		250		mg/Kg			10/07/21 09:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U	250		mg/Kg		10/05/21 10:43	10/06/21 19:18	5
Diesel Range Organics (Over C10-C28)	**2100**		250		mg/Kg		10/05/21 10:43	10/06/21 19:18	5
OII Range Organics (Over C28-C36)	<250	U	250		mg/Kg		10/05/21 10:43	10/06/21 19:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*10/05/21 10:43*	*10/06/21 19:18*	*5*
o-Terphenyl	*116*		*70 - 130*	*10/05/21 10:43*	*10/06/21 19:18*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9360**		49.7		mg/Kg			10/05/21 23:25	10

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6800-1
SDG: 212C-MD-02547

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
820-2130-A-1-C MS	Matrix Spike	115	82										
820-2130-A-1-D MSD	Matrix Spike Duplicate	114	82										
880-6800-1	SW-6	136 S1+	76										
880-6800-2	SW-7	173 S1+	88										
880-6800-3	SW-8	166 S1+	82										
880-6800-4	SW-9	122	78										
LCS 880-8912/1-A	Lab Control Sample	109	81										
LCSD 880-8912/2-A	Lab Control Sample Dup	116	80										
MB 880-8800/5-A	Method Blank	116	85										
MB 880-8912/5-A	Method Blank	119	80										

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)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-6727-A-1-C MS	Matrix Spike	118	114										
880-6727-A-1-D MSD	Matrix Spike Duplicate	104	102										
880-6800-1	SW-6	102	105										
880-6800-2	SW-7	108	113										
880-6800-3	SW-8	118	131 S1+										
880-6800-4	SW-9	121	116										
LCS 880-8894/2-A	Lab Control Sample	92	87										
LCSD 880-8894/3-A	Lab Control Sample Dup	96	92										
MB 880-8894/1-A	Method Blank	101	108										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6800-1
SDG: 212C-MD-02547

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8800/5-A
Matrix: Solid
Analysis Batch: 8885

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/04/21 13:33	10/05/21 12:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/04/21 13:33	10/05/21 12:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/04/21 13:33	10/05/21 12:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/04/21 13:33	10/05/21 12:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/04/21 13:33	10/05/21 12:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/04/21 13:33	10/05/21 12:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*10/04/21 13:33*	*10/05/21 12:03*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*10/04/21 13:33*	*10/05/21 12:03*	*1*

Lab Sample ID: MB 880-8912/5-A
Matrix: Solid
Analysis Batch: 8885

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/05/21 17:00	10/05/21 22:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/05/21 17:00	10/05/21 22:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/05/21 17:00	10/05/21 22:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/05/21 17:00	10/05/21 22:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/05/21 17:00	10/05/21 22:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/05/21 17:00	10/05/21 22:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*10/05/21 17:00*	*10/05/21 22:57*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*10/05/21 17:00*	*10/05/21 22:57*	*1*

Lab Sample ID: LCS 880-8912/1-A
Matrix: Solid
Analysis Batch: 8885

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8912

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08802		mg/Kg		88	70 - 130		
Toluene			0.100	0.08907		mg/Kg		89	70 - 130		
Ethylbenzene			0.100	0.08779		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene			0.200	0.1839		mg/Kg		92	70 - 130		
o-Xylene			0.100	0.09282		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*

Lab Sample ID: LCSD 880-8912/2-A
Matrix: Solid
Analysis Batch: 8885

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 8912

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09678		mg/Kg		97	70 - 130	9	35

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6800-1
SDG: 212C-MD-02547

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

Lab Sample ID: LCSD 880-8912/2-A
Matrix: Solid
Analysis Batch: 8885

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 8912

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			0.100	0.1007		mg/Kg		101	70 - 130	12	35
Ethylbenzene			0.100	0.09997		mg/Kg		100	70 - 130	13	35
m-Xylene & p-Xylene			0.200	0.2116		mg/Kg		106	70 - 130	14	35
o-Xylene			0.100	0.1064		mg/Kg		106	70 - 130	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*

Lab Sample ID: 820-2130-A-1-C MS
Matrix: Solid
Analysis Batch: 8885

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 8912

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.00464		0.0992	0.09542		mg/Kg		92	70 - 130
Toluene	0.00601		0.0992	0.1008		mg/Kg		96	70 - 130
Ethylbenzene	0.0599	F1	0.0992	0.1010	F1	mg/Kg		41	70 - 130
m-Xylene & p-Xylene	0.0692	F1	0.198	0.2164		mg/Kg		74	70 - 130
o-Xylene	0.0786	F1	0.0992	0.1077	F1	mg/Kg		29	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*

Lab Sample ID: 820-2130-A-1-D MSD
Matrix: Solid
Analysis Batch: 8885

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 8912

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.00464		0.0996	0.09318		mg/Kg		89	70 - 130	2	35
Toluene	0.00601		0.0996	0.09719		mg/Kg		92	70 - 130	4	35
Ethylbenzene	0.0599	F1	0.0996	0.09695	F1	mg/Kg		37	70 - 130	4	35
m-Xylene & p-Xylene	0.0692	F1	0.199	0.2060	F1	mg/Kg		69	70 - 130	5	35
o-Xylene	0.0786	F1	0.0996	0.1038	F1	mg/Kg		25	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*

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

Lab Sample ID: MB 880-8894/1-A
Matrix: Solid
Analysis Batch: 8951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8894

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		10/05/21 10:43	10/06/21 10:20	1

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6800-1
SDG: 212C-MD-02547

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

Lab Sample ID: MB 880-8894/1-A
Matrix: Solid
Analysis Batch: 8951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8894

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		10/05/21 10:43	10/06/21 10:20	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/05/21 10:43	10/06/21 10:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*10/05/21 10:43*	*10/06/21 10:20*	*1*
o-Terphenyl	*108*		*70 - 130*	*10/05/21 10:43*	*10/06/21 10:20*	*1*

Lab Sample ID: LCS 880-8894/2-A
Matrix: Solid
Analysis Batch: 8951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8894

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	895.3		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	779.7		mg/Kg		78	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: LCSD 880-8894/3-A
Matrix: Solid
Analysis Batch: 8951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 8894

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	890.9		mg/Kg		89	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	821.6		mg/Kg		82	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: 880-6727-A-1-C MS
Matrix: Solid
Analysis Batch: 8951

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 8894

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 F2	995	1258		mg/Kg		124	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	995	971.0		mg/Kg		96	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*114*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 880-6800-1
Project/Site: Melson Federal #002H SDG: 212C-MD-02547

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

Lab Sample ID: 880-6727-A-1-D MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 8951 **Prep Batch: 8894**

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 F2	997	980.9	F2	mg/Kg		96	70 - 130	25	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	877.7		mg/Kg		86	70 - 130	10	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8935/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 8969

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/05/21 22:40	1

Lab Sample ID: LCS 880-8935/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 8969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	234.6		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-8935/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 8969

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	235.5		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-6800-1 MS **Client Sample ID: SW-6**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 8969

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5640		2480	8177		mg/Kg		102	90 - 110

Lab Sample ID: 880-6800-1 MSD **Client Sample ID: SW-6**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 8969

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5640		2480	8188		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6800-1
SDG: 212C-MD-02547

GC VOA

Prep Batch: 8800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8800/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 8885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6800-1	SW-6	Total/NA	Solid	8021B	8912
880-6800-2	SW-7	Total/NA	Solid	8021B	8912
880-6800-3	SW-8	Total/NA	Solid	8021B	8912
880-6800-4	SW-9	Total/NA	Solid	8021B	8912
MB 880-8800/5-A	Method Blank	Total/NA	Solid	8021B	8800
MB 880-8912/5-A	Method Blank	Total/NA	Solid	8021B	8912
LCS 880-8912/1-A	Lab Control Sample	Total/NA	Solid	8021B	8912
LCSD 880-8912/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8912
820-2130-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	8912
820-2130-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	8912

Analysis Batch: 8902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6800-1	SW-6	Total/NA	Solid	Total BTEX	
880-6800-2	SW-7	Total/NA	Solid	Total BTEX	
880-6800-3	SW-8	Total/NA	Solid	Total BTEX	
880-6800-4	SW-9	Total/NA	Solid	Total BTEX	

Prep Batch: 8912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6800-1	SW-6	Total/NA	Solid	5035	
880-6800-2	SW-7	Total/NA	Solid	5035	
880-6800-3	SW-8	Total/NA	Solid	5035	
880-6800-4	SW-9	Total/NA	Solid	5035	
MB 880-8912/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8912/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8912/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-2130-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
820-2130-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 8894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6800-1	SW-6	Total/NA	Solid	8015NM Prep	
880-6800-2	SW-7	Total/NA	Solid	8015NM Prep	
880-6800-3	SW-8	Total/NA	Solid	8015NM Prep	
880-6800-4	SW-9	Total/NA	Solid	8015NM Prep	
MB 880-8894/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8894/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8894/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6727-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6727-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 8951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6800-1	SW-6	Total/NA	Solid	8015B NM	8894

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6800-1
SDG: 212C-MD-02547

GC Semi VOA (Continued)

Analysis Batch: 8951 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6800-2	SW-7	Total/NA	Solid	8015B NM	8894
880-6800-3	SW-8	Total/NA	Solid	8015B NM	8894
880-6800-4	SW-9	Total/NA	Solid	8015B NM	8894
MB 880-8894/1-A	Method Blank	Total/NA	Solid	8015B NM	8894
LCS 880-8894/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8894
LCSD 880-8894/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8894
880-6727-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	8894
880-6727-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8894

Analysis Batch: 9044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6800-1	SW-6	Total/NA	Solid	8015 NM	
880-6800-2	SW-7	Total/NA	Solid	8015 NM	
880-6800-3	SW-8	Total/NA	Solid	8015 NM	
880-6800-4	SW-9	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 8935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6800-1	SW-6	Soluble	Solid	DI Leach	
880-6800-2	SW-7	Soluble	Solid	DI Leach	
880-6800-3	SW-8	Soluble	Solid	DI Leach	
880-6800-4	SW-9	Soluble	Solid	DI Leach	
MB 880-8935/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8935/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8935/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6800-1 MS	SW-6	Soluble	Solid	DI Leach	
880-6800-1 MSD	SW-6	Soluble	Solid	DI Leach	

Analysis Batch: 8969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6800-1	SW-6	Soluble	Solid	300.0	8935
880-6800-2	SW-7	Soluble	Solid	300.0	8935
880-6800-3	SW-8	Soluble	Solid	300.0	8935
880-6800-4	SW-9	Soluble	Solid	300.0	8935
MB 880-8935/1-A	Method Blank	Soluble	Solid	300.0	8935
LCS 880-8935/2-A	Lab Control Sample	Soluble	Solid	300.0	8935
LCSD 880-8935/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8935
880-6800-1 MS	SW-6	Soluble	Solid	300.0	8935
880-6800-1 MSD	SW-6	Soluble	Solid	300.0	8935

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6800-1
SDG: 212C-MD-02547

Client Sample ID: SW-6

Lab Sample ID: 880-6800-1
Matrix: Solid
Date Collected: 10/04/21 13:30
Date Received: 10/05/21 10:20

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	8912	10/05/21 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8885	10/06/21 04:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8902	10/05/21 10:58	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9044	10/07/21 09:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8894	10/05/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		5			8951	10/06/21 18:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	8935	10/05/21 16:30	CH	XEN MID
Soluble	Analysis	300.0		10			8969	10/05/21 22:57	CH	XEN MID

Client Sample ID: SW-7

Lab Sample ID: 880-6800-2
Matrix: Solid
Date Collected: 10/04/21 11:30
Date Received: 10/05/21 10:20

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	8912	10/05/21 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8885	10/06/21 05:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8902	10/05/21 10:58	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9044	10/07/21 09:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8894	10/05/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		5			8951	10/06/21 18:35	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8935	10/05/21 16:30	CH	XEN MID
Soluble	Analysis	300.0		5			8969	10/05/21 23:13	CH	XEN MID

Client Sample ID: SW-8

Lab Sample ID: 880-6800-3
Matrix: Solid
Date Collected: 10/04/21 14:45
Date Received: 10/05/21 10:20

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	8912	10/05/21 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8885	10/06/21 05:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8902	10/05/21 10:58	KL	XEN MID
Total/NA	Analysis	8015 NM		1			9044	10/07/21 09:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	8894	10/05/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		5			8951	10/06/21 18:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8935	10/05/21 16:30	CH	XEN MID
Soluble	Analysis	300.0		10			8969	10/05/21 23:19	CH	XEN MID

Client Sample ID: SW-9

Lab Sample ID: 880-6800-4
Matrix: Solid
Date Collected: 10/04/21 13:15
Date Received: 10/05/21 10:20

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	8912	10/05/21 17:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8885	10/06/21 05:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8902	10/05/21 10:58	KL	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6800-1
SDG: 212C-MD-02547

Client Sample ID: SW-9

Date Collected: 10/04/21 13:15
Date Received: 10/05/21 10:20

Lab Sample ID: 880-6800-4

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			9044	10/07/21 09:20	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8894	10/05/21 10:43	DM	XEN MID
Total/NA	Analysis	8015B NM		5			8951	10/06/21 19:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8935	10/05/21 16:30	CH	XEN MID
Soluble	Analysis	300.0		10			8969	10/05/21 23:25	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6800-1
SDG: 212C-MD-02547

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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. Job ID: 880-6800-1
Project/Site: Melson Federal #002H SDG: 212C-MD-02547

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-6800-1
SDG: 212C-MD-02547

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-6800-1	SW-6	Solid	10/04/21 13:30	10/05/21 10:20
880-6800-2	SW-7	Solid	10/04/21 11:30	10/05/21 10:20
880-6800-3	SW-8	Solid	10/04/21 14:45	10/05/21 10:20
880-6800-4	SW-9	Solid	10/04/21 13:15	10/05/21 10:20

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

880-6800 Chain of Custody

Page 1 of 1

#8800-6800

Client Name: EOG Resources	Site Manager: Paula Tocora
Project Name: Melson Federal #002H	
Project Location (county state): Eddy Co, NM	Project #: 212C-MD-02547
Invoice to: James Kennedy - EOG	
Receiving Laboratory: Xenco Eurofines	Sampler Signature: Gabriel Huerta
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: DATE	TIME	MATRIX WATER	SOIL	PRESERVATIVE METHOD HCL	HNO_3	ICE	# CONTAINERS	FILTERED (Y/N)	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	Asbestos			Hold
	SW-6	10/4/2021	13 30		X			X	1		X		X												X							
	SW-7	10/4/2021	11 30		X			X	1		X		X												X							
	SW-8	10/4/2021	11 45		X			X	1		X		X												X							
	SW-9	10/4/2021	13 15		X			X	1		X		X												X							

Relinquished by	Date	Time	Received by	Date	Time
Gabriel Huerta			Paula Tocora Alonso		
Gabriel Huerta	10/5/21	1020	[signature]	10/5/21	1020
Relinquished by	Date	Time	Received by	Date	Time

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB USE ONLY

Sample Temperature: 4.1/4.6

REMARKS

[X] 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: 880-6800-1
SDG Number: 212C-MD-02547

Login Number: 6800
List Number: 1
Creator: Phillips, Kerianna

List Source: Eurofins Xenco, 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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-7346-1
Laboratory Sample Delivery Group: Eddy County, NM
Client Project/Site: Melson Federal #002H

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

Attn: Paula TocoraAlonso

JKramer

Authorized for release by:
10/25/2021 9:52:11 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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

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

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Laboratory Job ID: 880-7346-1
SDG: Eddy County, NM

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-7346-1
Project/Site: Melson Federal #002H SDG: Eddy County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
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.
¤	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: Melson Federal #002H

Job ID: 880-7346-1
SDG: Eddy County, NM

Job ID: 880-7346-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-7346-1

Receipt
The samples were received on 10/19/2021 10:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9908 and 880-9908 and analytical batch 880-9938 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-10073 and analytical batch 880-10053 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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7346-1
SDG: Eddy County, NM

Client Sample ID: SW-6

Lab Sample ID: 880-7346-1
Matrix: Solid
Date Collected: 10/18/21 13:30
Date Received: 10/19/21 10:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199		mg/Kg		10/19/21 14:57	10/21/21 02:33	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		10/19/21 14:57	10/21/21 02:33	1
Ethylbenzene	**0.0530**	**F1 F2**	0.00199		mg/Kg		10/19/21 14:57	10/21/21 02:33	1
m-Xylene & p-Xylene	**0.00917**	**F1 F2**	0.00398		mg/Kg		10/19/21 14:57	10/21/21 02:33	1
o-Xylene	**0.00596**	**F1 F2**	0.00199		mg/Kg		10/19/21 14:57	10/21/21 02:33	1
Xylenes, Total	**0.0151**	**F1 F2**	0.00398		mg/Kg		10/19/21 14:57	10/21/21 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*10/19/21 14:57*	*10/21/21 02:33*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*10/19/21 14:57*	*10/21/21 02:33*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0681**		0.00398		mg/Kg			10/21/21 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1190**		50.0		mg/Kg			10/22/21 09:44	1

Method: 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		10/21/21 09:49	10/21/21 12:43	1
Diesel Range Organics (Over C10-C28)	**1190**	***1**	50.0		mg/Kg		10/21/21 09:49	10/21/21 12:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/21/21 09:49	10/21/21 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*10/21/21 09:49*	*10/21/21 12:43*	*1*
o-Terphenyl	*121*		*70 - 130*	*10/21/21 09:49*	*10/21/21 12:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1730**		25.0		mg/Kg			10/20/21 03:56	5

Client Sample ID: SW-7

Lab Sample ID: 880-7346-2
Matrix: Solid
Date Collected: 10/18/21 13:40
Date Received: 10/19/21 10:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/19/21 14:57	10/21/21 02:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/19/21 14:57	10/21/21 02:53	1
Ethylbenzene	**0.0281**		0.00200		mg/Kg		10/19/21 14:57	10/21/21 02:53	1
m-Xylene & p-Xylene	**0.00860**		0.00400		mg/Kg		10/19/21 14:57	10/21/21 02:53	1
o-Xylene	**0.0126**		0.00200		mg/Kg		10/19/21 14:57	10/21/21 02:53	1
Xylenes, Total	**0.0212**		0.00400		mg/Kg		10/19/21 14:57	10/21/21 02:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*10/19/21 14:57*	*10/21/21 02:53*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*	*10/19/21 14:57*	*10/21/21 02:53*	*1*

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7346-1
SDG: Eddy County, NM

Client Sample ID: SW-7

Date Collected: 10/18/21 13:40
Date Received: 10/19/21 10:35

Lab Sample ID: 880-7346-2
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0493**		0.00400		mg/Kg			10/20/21 20:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**937**		50.0		mg/Kg			10/22/21 09:44	1

Method: 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		10/21/21 09:49	10/21/21 13:42	1
Diesel Range Organics (Over C10-C28)	**937**	***1**	50.0		mg/Kg		10/21/21 09:49	10/21/21 13:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/21/21 09:49	10/21/21 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*10/21/21 09:49*	*10/21/21 13:42*	*1*
o-Terphenyl	*123*		*70 - 130*	*10/21/21 09:49*	*10/21/21 13:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1600**		24.8		mg/Kg			10/20/21 04:02	5

Client Sample ID: SW-8

Date Collected: 10/18/21 13:50
Date Received: 10/19/21 10:35

Lab Sample ID: 880-7346-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/19/21 14:57	10/21/21 03:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/19/21 14:57	10/21/21 03:14	1
Ethylbenzene	**0.0220**		0.00199		mg/Kg		10/19/21 14:57	10/21/21 03:14	1
m-Xylene & p-Xylene	**0.00561**		0.00398		mg/Kg		10/19/21 14:57	10/21/21 03:14	1
o-Xylene	**0.00611**		0.00199		mg/Kg		10/19/21 14:57	10/21/21 03:14	1
Xylenes, Total	**0.0117**		0.00398		mg/Kg		10/19/21 14:57	10/21/21 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*10/19/21 14:57*	*10/21/21 03:14*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*10/19/21 14:57*	*10/21/21 03:14*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0337**		0.00398		mg/Kg			10/20/21 20:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**977**		49.9		mg/Kg			10/22/21 09:44	1

Method: 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		10/21/21 09:49	10/21/21 14:02	1
Diesel Range Organics (Over C10-C28)	**977**	***1**	49.9		mg/Kg		10/21/21 09:49	10/21/21 14:02	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7346-1
SDG: Eddy County, NM

Client Sample ID: SW-8

Lab Sample ID: 880-7346-3
Matrix: Solid
Date Collected: 10/18/21 13:50
Date Received: 10/19/21 10:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/21/21 09:49	10/21/21 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*10/21/21 09:49*	*10/21/21 14:02*	*1*
o-Terphenyl	*115*		*70 - 130*	*10/21/21 09:49*	*10/21/21 14:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1690**		25.0		mg/Kg			10/20/21 04:19	5

Client Sample ID: SW-9

Lab Sample ID: 880-7346-4
Matrix: Solid
Date Collected: 10/18/21 14:00
Date Received: 10/19/21 10:35

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/19/21 14:57	10/21/21 03:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/19/21 14:57	10/21/21 03:34	1
Ethylbenzene	**0.0306**		0.00200		mg/Kg		10/19/21 14:57	10/21/21 03:34	1
m-Xylene & p-Xylene	**0.00856**		0.00400		mg/Kg		10/19/21 14:57	10/21/21 03:34	1
o-Xylene	**0.00796**		0.00200		mg/Kg		10/19/21 14:57	10/21/21 03:34	1
Xylenes, Total	**0.0165**		0.00400		mg/Kg		10/19/21 14:57	10/21/21 03:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*10/19/21 14:57*	*10/21/21 03:34*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*10/19/21 14:57*	*10/21/21 03:34*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0471**		0.00400		mg/Kg			10/20/21 20:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1070**		49.9		mg/Kg			10/22/21 09:44	1

Method: 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		10/21/21 09:49	10/21/21 14:22	1
Diesel Range Organics (Over C10-C28)	**1070**	***1**	49.9		mg/Kg		10/21/21 09:49	10/21/21 14:22	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/21/21 09:49	10/21/21 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*10/21/21 09:49*	*10/21/21 14:22*	*1*
o-Terphenyl	*121*		*70 - 130*	*10/21/21 09:49*	*10/21/21 14:22*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1690**		25.1		mg/Kg			10/20/21 04:24	5

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7346-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-7346-1	SW-6	94	105
880-7346-1 MS	SW-6	124	127
880-7346-1 MSD	SW-6	75	72
880-7346-2	SW-7	102	125
880-7346-3	SW-8	96	114
880-7346-4	SW-9	103	112
LCS 880-9908/1-A	Lab Control Sample	94	106
LCSD 880-9908/2-A	Lab Control Sample Dup	93	107
MB 880-9756/5-A	Method Blank	100	109
MB 880-9908/5-A	Method Blank	98	102

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-7346-1	SW-6	116	121
880-7346-1 MS	SW-6	127	124
880-7346-1 MSD	SW-6	123	125
880-7346-2	SW-7	118	123
880-7346-3	SW-8	111	115
880-7346-4	SW-9	120	121
LCS 880-10073/2-A	Lab Control Sample	88	83
LCSD 880-10073/3-A	Lab Control Sample Dup	98	94
MB 880-10073/1-A	Method Blank	103	108

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7346-1
SDG: Eddy County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-9756/5-A
Matrix: Solid
Analysis Batch: 9938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9756

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:16	10/20/21 14:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:16	10/20/21 14:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:16	10/20/21 14:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/18/21 14:16	10/20/21 14:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:16	10/20/21 14:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/18/21 14:16	10/20/21 14:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*10/18/21 14:16*	*10/20/21 14:30*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*10/18/21 14:16*	*10/20/21 14:30*	*1*

Lab Sample ID: MB 880-9908/5-A
Matrix: Solid
Analysis Batch: 9938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9908

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/19/21 14:57	10/21/21 02:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/19/21 14:57	10/21/21 02:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/19/21 14:57	10/21/21 02:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/19/21 14:57	10/21/21 02:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/19/21 14:57	10/21/21 02:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/19/21 14:57	10/21/21 02:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*10/19/21 14:57*	*10/21/21 02:04*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*10/19/21 14:57*	*10/21/21 02:04*	*1*

Lab Sample ID: LCS 880-9908/1-A
Matrix: Solid
Analysis Batch: 9938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9908

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1031		mg/Kg		103	70 - 130
Toluene	0.100	0.1075		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1152		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	0.200	0.2275		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1217		mg/Kg		122	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-9908/2-A
Matrix: Solid
Analysis Batch: 9938

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9908

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1031		mg/Kg		103	70 - 130	0	35

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7346-1
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-9908/2-A
Matrix: Solid
Analysis Batch: 9938

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9908

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			0.100	0.1074		mg/Kg		107	70 - 130	0	35
Ethylbenzene			0.100	0.1163		mg/Kg		116	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2257		mg/Kg		113	70 - 130	1	35
o-Xylene			0.100	0.1189		mg/Kg		119	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-7346-1 MS
Matrix: Solid
Analysis Batch: 9938

Client Sample ID: SW-6
Prep Type: Total/NA
Prep Batch: 9908

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1 F2	0.0990	0.02863	F1	mg/Kg		28	70 - 130
Toluene	<0.00199	U F1	0.0990	0.02025	F1	mg/Kg		19	70 - 130
Ethylbenzene	0.0530	F1 F2	0.0990	0.05535	F1	mg/Kg		2	70 - 130
m-Xylene & p-Xylene	0.00917	F1 F2	0.198	0.06192	F1	mg/Kg		27	70 - 130
o-Xylene	0.00596	F1 F2	0.0990	0.03361	F1	mg/Kg		28	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*127*		*70 - 130*

Lab Sample ID: 880-7346-1 MSD
Matrix: Solid
Analysis Batch: 9938

Client Sample ID: SW-6
Prep Type: Total/NA
Prep Batch: 9908

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 F2	0.0998	0.009546	F1 F2	mg/Kg		9	70 - 130	100	35
Toluene	<0.00199	U F1	0.0998	0.01621	F1	mg/Kg		15	70 - 130	22	35
Ethylbenzene	0.0530	F1 F2	0.0998	0.01603	F1 F2	mg/Kg		-37	70 - 130	110	35
m-Xylene & p-Xylene	0.00917	F1 F2	0.200	0.03474	F1 F2	mg/Kg		13	70 - 130	56	35
o-Xylene	0.00596	F1 F2	0.0998	0.01835	F1 F2	mg/Kg		12	70 - 130	59	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*

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

Lab Sample ID: MB 880-10073/1-A
Matrix: Solid
Analysis Batch: 10053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10073

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		10/21/21 09:49	10/21/21 11:42	1

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7346-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-10073/1-A
Matrix: Solid
Analysis Batch: 10053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10073

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		10/21/21 09:49	10/21/21 11:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/21/21 09:49	10/21/21 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*10/21/21 09:49*	*10/21/21 11:42*	*1*
o-Terphenyl	*108*		*70 - 130*	*10/21/21 09:49*	*10/21/21 11:42*	*1*

Lab Sample ID: LCS 880-10073/2-A
Matrix: Solid
Analysis Batch: 10053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	801.8		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	1000	816.3		mg/Kg		82	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: LCSD 880-10073/3-A
Matrix: Solid
Analysis Batch: 10053

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 10073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	983.9		mg/Kg		98	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	1000	1020	*1	mg/Kg		102	70 - 130	22	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: 880-7346-1 MS
Matrix: Solid
Analysis Batch: 10053

Client Sample ID: SW-6
Prep Type: Total/NA
Prep Batch: 10073

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	1082		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1190	*1	996	2214		mg/Kg		103	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*127*		*70 - 130*
o-Terphenyl	*124*		*70 - 130*

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7346-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-7346-1 MSD
Matrix: Solid
Analysis Batch: 10053

Client Sample ID: SW-6
Prep Type: Total/NA
Prep Batch: 10073

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1061		mg/Kg		105	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1190	*1	998	2245		mg/Kg		106	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*123*		*70 - 130*
o-Terphenyl	*125*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9724/1-A
Matrix: Solid
Analysis Batch: 9925

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			10/20/21 02:26	1

Lab Sample ID: LCS 880-9724/2-A
Matrix: Solid
Analysis Batch: 9925

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	251.8		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-9724/3-A
Matrix: Solid
Analysis Batch: 9925

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	252.4		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-7346-2 MS
Matrix: Solid
Analysis Batch: 9925

Client Sample ID: SW-7
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1600		1240	2912		mg/Kg		106	90 - 110

Lab Sample ID: 880-7346-2 MSD
Matrix: Solid
Analysis Batch: 9925

Client Sample ID: SW-7
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1600		1240	2913		mg/Kg		106	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7346-1
SDG: Eddy County, NM

GC VOA

Prep Batch: 9756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9756/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 9908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7346-1	SW-6	Total/NA	Solid	5035	
880-7346-2	SW-7	Total/NA	Solid	5035	
880-7346-3	SW-8	Total/NA	Solid	5035	
880-7346-4	SW-9	Total/NA	Solid	5035	
MB 880-9908/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9908/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9908/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-7346-1 MS	SW-6	Total/NA	Solid	5035	
880-7346-1 MSD	SW-6	Total/NA	Solid	5035	

Analysis Batch: 9938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7346-1	SW-6	Total/NA	Solid	8021B	9908
880-7346-2	SW-7	Total/NA	Solid	8021B	9908
880-7346-3	SW-8	Total/NA	Solid	8021B	9908
880-7346-4	SW-9	Total/NA	Solid	8021B	9908
MB 880-9756/5-A	Method Blank	Total/NA	Solid	8021B	9756
MB 880-9908/5-A	Method Blank	Total/NA	Solid	8021B	9908
LCS 880-9908/1-A	Lab Control Sample	Total/NA	Solid	8021B	9908
LCSD 880-9908/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9908
880-7346-1 MS	SW-6	Total/NA	Solid	8021B	9908
880-7346-1 MSD	SW-6	Total/NA	Solid	8021B	9908

Analysis Batch: 10032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7346-2	SW-7	Total/NA	Solid	Total BTEX	
880-7346-3	SW-8	Total/NA	Solid	Total BTEX	
880-7346-4	SW-9	Total/NA	Solid	Total BTEX	

Analysis Batch: 10089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7346-1	SW-6	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 10053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7346-1	SW-6	Total/NA	Solid	8015B NM	10073
880-7346-2	SW-7	Total/NA	Solid	8015B NM	10073
880-7346-3	SW-8	Total/NA	Solid	8015B NM	10073
880-7346-4	SW-9	Total/NA	Solid	8015B NM	10073
MB 880-10073/1-A	Method Blank	Total/NA	Solid	8015B NM	10073
LCS 880-10073/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10073
LCSD 880-10073/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10073
880-7346-1 MS	SW-6	Total/NA	Solid	8015B NM	10073
880-7346-1 MSD	SW-6	Total/NA	Solid	8015B NM	10073

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7346-1
SDG: Eddy County, NM

GC Semi VOA

Prep Batch: 10073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7346-1	SW-6	Total/NA	Solid	8015NM Prep	
880-7346-2	SW-7	Total/NA	Solid	8015NM Prep	
880-7346-3	SW-8	Total/NA	Solid	8015NM Prep	
880-7346-4	SW-9	Total/NA	Solid	8015NM Prep	
MB 880-10073/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10073/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10073/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-7346-1 MS	SW-6	Total/NA	Solid	8015NM Prep	
880-7346-1 MSD	SW-6	Total/NA	Solid	8015NM Prep	

Analysis Batch: 10196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7346-1	SW-6	Total/NA	Solid	8015 NM	
880-7346-2	SW-7	Total/NA	Solid	8015 NM	
880-7346-3	SW-8	Total/NA	Solid	8015 NM	
880-7346-4	SW-9	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 9724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7346-1	SW-6	Soluble	Solid	DI Leach	
880-7346-2	SW-7	Soluble	Solid	DI Leach	
880-7346-3	SW-8	Soluble	Solid	DI Leach	
880-7346-4	SW-9	Soluble	Solid	DI Leach	
MB 880-9724/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9724/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9724/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7346-2 MS	SW-7	Soluble	Solid	DI Leach	
880-7346-2 MSD	SW-7	Soluble	Solid	DI Leach	

Analysis Batch: 9925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7346-1	SW-6	Soluble	Solid	300.0	9724
880-7346-2	SW-7	Soluble	Solid	300.0	9724
880-7346-3	SW-8	Soluble	Solid	300.0	9724
880-7346-4	SW-9	Soluble	Solid	300.0	9724
MB 880-9724/1-A	Method Blank	Soluble	Solid	300.0	9724
LCS 880-9724/2-A	Lab Control Sample	Soluble	Solid	300.0	9724
LCSD 880-9724/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9724
880-7346-2 MS	SW-7	Soluble	Solid	300.0	9724
880-7346-2 MSD	SW-7	Soluble	Solid	300.0	9724

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7346-1
SDG: Eddy County, NM

Client Sample ID: SW-6

Lab Sample ID: 880-7346-1
Matrix: Solid
Date Collected: 10/18/21 13:30
Date Received: 10/19/21 10:35

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	9908	10/19/21 14:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/21/21 02:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10089	10/21/21 11:35	MR	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10073	10/21/21 09:49	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10053	10/21/21 12:43	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9724	10/19/21 13:56	CA	XEN MID
Soluble	Analysis	300.0		5			9925	10/20/21 03:56	CH	XEN MID

Client Sample ID: SW-7

Lab Sample ID: 880-7346-2
Matrix: Solid
Date Collected: 10/18/21 13:40
Date Received: 10/19/21 10:35

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	9908	10/19/21 14:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/21/21 02:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 20:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10073	10/21/21 09:49	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10053	10/21/21 13:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9724	10/19/21 13:56	CA	XEN MID
Soluble	Analysis	300.0		5			9925	10/20/21 04:02	CH	XEN MID

Client Sample ID: SW-8

Lab Sample ID: 880-7346-3
Matrix: Solid
Date Collected: 10/18/21 13:50
Date Received: 10/19/21 10:35

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	9908	10/19/21 14:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/21/21 03:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 20:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10196	10/22/21 09:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10073	10/21/21 09:49	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10053	10/21/21 14:02	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	9724	10/19/21 13:56	CA	XEN MID
Soluble	Analysis	300.0		5			9925	10/20/21 04:19	CH	XEN MID

Client Sample ID: SW-9

Lab Sample ID: 880-7346-4
Matrix: Solid
Date Collected: 10/18/21 14:00
Date Received: 10/19/21 10:35

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	9908	10/19/21 14:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9938	10/21/21 03:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 20:18	AJ	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7346-1
SDG: Eddy County, NM

Client Sample ID: SW-9

Date Collected: 10/18/21 14:00
Date Received: 10/19/21 10:35

Lab Sample ID: 880-7346-4

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			10196	10/22/21 09:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10073	10/21/21 09:49	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10053	10/21/21 14:22	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	9724	10/19/21 13:56	CA	XEN MID
Soluble	Analysis	300.0		5			9925	10/20/21 04:24	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7346-1
SDG: Eddy County, NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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. Job ID: 880-7346-1
Project/Site: Melson Federal #002H SDG: Eddy County, NM

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7346-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-7346-1	SW-6	Solid	10/18/21 13:30	10/19/21 10:35
880-7346-2	SW-7	Solid	10/18/21 13:40	10/19/21 10:35
880-7346-3	SW-8	Solid	10/18/21 13:50	10/19/21 10:35
880-7346-4	SW-9	Solid	10/18/21 14:00	10/19/21 10:35

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 West Wall St, Suite 100
Midland Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

880-7346 Chain of Custody

Client Name: EOG Resources	Site Manager: Paula Tocora
Project Name: Melson Federal #002H	
Project Location (county, state): Eddy Co, NM	Project #: 212C-MD-02547
Invoice to: James Kennedy - EOG	
Receiving Laboratory: Xenco Eurofines	Sampler Signature: Adrian Garcia
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING: YEAR / DATE	SAMPLING: TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	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	Sulfate TDS	Chloride	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos	Hold
	SW-6	10/18/2021	13 30		X			X	1		X		X												X						
	SW-7	10/18/2021	13 40		X			X	1		X		X												X						
	SW-8	10/18/2021	13 50		X			X	1		X		X												X						
	SW-9	10/18/2021	14 00		X			X	1		X		X												X						

Relinquished by: Adrian Garcia	Date	Time
Relinquished by:	Date	Time
Relinquished by:	Date	Time

Received by: Paula Tocora Alonso	Date	Time
Received by: [signature]	10.19.21	1032
Received by:	Date	Time

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB USE ONLY

Sample Temperature: 5.1/5.7

REMARKS

- RUSH Same Day 24 hr 48 hr 72 hr
- Rush Charges Authorized
- Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-7346-1
SDG Number: Eddy County, NM

Login Number: 7346
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Xenco, 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	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-7628-1
Laboratory Sample Delivery Group: Eddy County, NM
Client Project/Site: Melson Federal #002H

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

Attn: Clair Gonzales

JKramer

Authorized for release by:
11/1/2021 12:08:18 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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

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

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Laboratory Job ID: 880-7628-1
SDG: Eddy County, NM

Table of Contents

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-7628-1
Project/Site: Melson Federal #002H SDG: Eddy County, NM

Qualifiers

GC Semi VOA

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.
¤	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: Melson Federal #002H

Job ID: 880-7628-1
SDG: Eddy County, NM

Job ID: 880-7628-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-7628-1

Receipt

The samples were received on 10/27/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

GC Semi VOA

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

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7628-1
SDG: Eddy County, NM

Client Sample ID: SW-6

Lab Sample ID: 880-7628-1
Matrix: Solid
Date Collected: 10/26/21 14:00
Date Received: 10/27/21 10:15

Method: 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			11/01/21 12:47	1

Method: 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		10/29/21 16:10	10/30/21 13:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/29/21 16:10	10/30/21 13:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/29/21 16:10	10/30/21 13:14	1
Total TPH	<50.0	U	50.0		mg/Kg		10/29/21 16:10	10/30/21 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*10/29/21 16:10*	*10/30/21 13:14*	*1*
o-Terphenyl	*108*		*70 - 130*	*10/29/21 16:10*	*10/30/21 13:14*	*1*

Client Sample ID: SW-9

Lab Sample ID: 880-7628-2
Matrix: Solid
Date Collected: 10/26/21 14:10
Date Received: 10/27/21 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**244**		50.0		mg/Kg			11/01/21 12:47	1

Method: 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		10/29/21 16:10	10/30/21 13:35	1
Diesel Range Organics (Over C10-C28)	**244**		50.0		mg/Kg		10/29/21 16:10	10/30/21 13:35	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/29/21 16:10	10/30/21 13:35	1
Total TPH	**244**		50.0		mg/Kg		10/29/21 16:10	10/30/21 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*10/29/21 16:10*	*10/30/21 13:35*	*1*
o-Terphenyl	*103*		*70 - 130*	*10/29/21 16:10*	*10/30/21 13:35*	*1*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7628-1
SDG: Eddy County, NM

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-7623-A-1-H MS	Matrix Spike	95	91										
880-7623-A-1-I MSD	Matrix Spike Duplicate	92	92										
880-7628-1	SW-6	97	108										
880-7628-2	SW-9	93	103										
LCS 880-10989/2-A	Lab Control Sample	89	97										
LCSD 880-10989/3-A	Lab Control Sample Dup	95	105										
MB 880-10989/1-A	Method Blank	102	115										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7628-1
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-10989/1-A
Matrix: Solid
Analysis Batch: 10996

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 10989

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		10/29/21 16:10	10/30/21 10:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/29/21 16:10	10/30/21 10:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/29/21 16:10	10/30/21 10:43	1
Total TPH	<50.0	U	50.0		mg/Kg		10/29/21 16:10	10/30/21 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*10/29/21 16:10*	*10/30/21 10:43*	*1*
o-Terphenyl	*115*		*70 - 130*	*10/29/21 16:10*	*10/30/21 10:43*	*1*

Lab Sample ID: LCS 880-10989/2-A
Matrix: Solid
Analysis Batch: 10996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 10989

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	791.7		mg/Kg		79	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	947.9		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: LCSD 880-10989/3-A
Matrix: Solid
Analysis Batch: 10996

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 10989

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	829.2		mg/Kg		83	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	914.5		mg/Kg		91	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: 880-7623-A-1-H MS
Matrix: Solid
Analysis Batch: 10996

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 10989

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	997	893.1		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	857.8		mg/Kg		86	70 - 130		

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7628-1
SDG: Eddy County, NM

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

Lab Sample ID: 880-7623-A-1-H MS
Matrix: Solid
Analysis Batch: 10996

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 10989

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 880-7623-A-1-I MSD
Matrix: Solid
Analysis Batch: 10996

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 10989

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	1000	899.9		mg/Kg		88	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	883.4		mg/Kg		88	70 - 130	3	20

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

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7628-1
SDG: Eddy County, NM

GC Semi VOA

Prep Batch: 10989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7628-1	SW-6	Total/NA	Solid	8015NM Prep	
880-7628-2	SW-9	Total/NA	Solid	8015NM Prep	
MB 880-10989/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10989/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10989/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-7623-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-7623-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 10996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7628-1	SW-6	Total/NA	Solid	8015B NM	10989
880-7628-2	SW-9	Total/NA	Solid	8015B NM	10989
MB 880-10989/1-A	Method Blank	Total/NA	Solid	8015B NM	10989
LCS 880-10989/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10989
LCSD 880-10989/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10989
880-7623-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	10989
880-7623-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	10989

Analysis Batch: 11118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7628-1	SW-6	Total/NA	Solid	8015 NM	
880-7628-2	SW-9	Total/NA	Solid	8015 NM	

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7628-1
SDG: Eddy County, NM

Client Sample ID: SW-6

Lab Sample ID: 880-7628-1
Matrix: Solid
Date Collected: 10/26/21 14:00
Date Received: 10/27/21 10:15

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			11118	11/01/21 12:47	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10989	10/29/21 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10996	10/30/21 13:14	AJ	XEN MID

Client Sample ID: SW-9

Lab Sample ID: 880-7628-2
Matrix: Solid
Date Collected: 10/26/21 14:10
Date Received: 10/27/21 10:15

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			11118	11/01/21 12:47	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10989	10/29/21 16:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10996	10/30/21 13:35	AJ	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7628-1
SDG: Eddy County, NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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
8015B NM	8015NM Prep	Solid	Total TPH

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7628-1
SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Melson Federal #002H

Job ID: 880-7628-1
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-7628-1	SW-6	Solid	10/26/21 14:00	10/27/21 10:15
880-7628-2	SW-9	Solid	10/26/21 14:10	10/27/21 10:15

Analysis Request of Chain of Custody Record

880-7628 Chain of Custody

e 1 of 1

11/1/2021

Tetra Tech, Inc.

901 West Wall St, Suite 100
Midland,Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name EOG	**Site Manager** Paula Tocora
Project Name Melson Federal #002H	**Contact Info** Paula TocoraAlonso@tetratech.com
Project Location (county, state) Eddy County,NM	**Project #** 212C-MD-02547
Invoice to EOG - James Kennedy	
Receiving Laboratory Eurofins Xenco	**Sampler Signature** Adrian Garcia
Comments Bill direct to EOG, Attention James Kennedy	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	# CONTAINERS	FILTERED (Y/N)
	SW-6	10/26/2021	2:00 pm		X			X	1	
	SW-9	10/26/2021	2:10 pm		X			X	1	

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B	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 300 0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Asbestos			Hold
		X																			
		X																			

Relinquished by	Date	Time	Received by	Date	Time
Adrian Garcia			Paula Tocora Alonso		
Paula Tocora Alonso	10/27/21	10:10		10/27/21	10:10

LAB USE ONLY

Sample Temperature 1.3/1.4 IR-8

REMARKS.

- ☐ RUSH Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #

ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-7628-1
SDG Number: Eddy County, NM

Login Number: 7628
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Xenco, 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	

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

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

COMMENTS

Action 70828

COMMENTS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 70828
	Action Type: [C-141] Release Corrective Action (C-141)

COMMENTS

Created By	Comment	Comment Date
csmith	Returned to OCD Review, discussed with Operator, Remediation was in correct location.	6/6/2023

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

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

CONDITIONS

Action 70828

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 70828
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Closure approved. Site will need to meet the requirements of 19.15.29.13 NMAC at time of plugging and abandonment.	6/6/2023
bhall	Initial submittal was rejected for "The historic report included in the appendices shows that the release occurred at the tank battery and south of the tank battery. The release that was remediated near the wellhead/pump jack does not appear to have been reported to the NMOCD. This release will need to be reported on an initial C-141 and the closure report can be resubmitted under the new incident number for this release." After conversations with Mr. James Kennedy with EOG about location of the battery in 2009, OCD had the application returned to "Under OCD review" as remediation did occur in the correct area.	6/6/2023